PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3047770

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KATHY MCEWEN	10/01/2014

RECEIVING PARTY DATA

Name:	IRIDESCENT NETWORKS INC
Street Address:	7809 LA GUARDIA DRIVE
City:	PLANO
State/Country:	TEXAS
Postal Code:	75025

PROPERTY NUMBERS Total: 1

Property Type	Number	
Patent Number:	7639612	

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 4692316778

Email: kathy@iridescentnetworks.com

Correspondent Name: KATHY MCEWEN

Address Line 1:7809 LA GUARDIA DRIVEAddress Line 4:PLANO, TEXAS 75025

NAME OF SUBMITTER:	KATHY MCEWEN	
SIGNATURE: /KathyMcEwen/		
DATE SIGNED:	10/01/2014	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 1

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ASSIGNMENT

Whereas, Kathy McEwen, the inventor of the Patent, an individual, residing at 7809 La Guardia Drive, Plano Texas 75025 ("Assignor"), is owner of the United States Patent Number: 7,639,612 B2 (the "Patent"), dated May 2, 2007, titled System and Method of providing bandwidth on demand (the "Invention"), for which United States Application was filed on May 2, 2007 (Serial No. 11/743,470) and issued as United States Patent No. 7,639,612 on December 29, 2009 (the "Issued Patent); and

Whereas, Iridescent Networks Inc. a Texas corporation located at 7809 La Guardia Drive, Plano, Texas 75025 ("Assignee"), desires to acquire the entire right, title, and interest in the Issued Patent.

Now, therefore, for good and valuable consideration, Assignor, by these presents does hereby assign and transfer unto Assignee, its successors, assigns and legal representatives the full and exclusive right to the Issued Patent in the United States and the entire right, title and interest in the invention, Issued Patent and to any and all patents which may be granted therefor and/or therefrom in the United States. Patentee hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the Invention, or patents resulting therefrom, insofar as Patentee's interest is concerned, to Assignee, of the entire right, title and interest in and to the same, for its sole use and benefit; and for the use and benefit of its legal representatives, to the full end of the term for which said patent(s) may be granted, as fully and entirely as the same would have been held by the Patentee had this assignment not been made.

Assignor also assigns to Assignee, its successors, assigns and legal representatives the full and exclusive right, title and interest to the Invention disclosed in said Issued Patent throughout the world, including the right to file applications and obtain patents, utility models, industrial models, and designs for the Invention in the Assignee's own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of the Invention and all rights to register the Invention in appropriate registries, all foreign rights arising from pre-grant publication of the Issued Patent; and Assignor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee, its successors, assigns and legal representatives.

Assignor further agrees to: (a) cooperate with Assignee in the protection of the patent rights and prosecution and protection of foreign counterparts; (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer; and (c) perform such other acts as Assignee lawfully may request to obtain or maintain the Patent and any and all applications and registrations for the invention in any and all countries.

Date: Oct 1st, 2014

Kathy McEwen.

On this day of May 2014, before me the undersigned Notary Public, personally appeared Kathy McEwen, ASSIGNOR, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same. WITNESS my hand and official seal in Plano, Texas County of Collin on the date set forth in this certificate.

Notary Public

Commission Expires:

Ho Yoo My Commission Expires 02/22/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2848500

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IRIDESCENT NETWORKS	05/02/2014

RECEIVING PARTY DATA

Name:	KATHY MCEWEN
Street Address:	7809 LA GUARDIA DRIVE
City:	PLANO
State/Country:	TEXAS
Postal Code:	75025

PROPERTY NUMBERS Total: 1

Property Type	Number	
Patent Number:	7639612	

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Phone: 4692316778

Email: KATHY@IRIDESCENTNETWORKS.COM

Correspondent Name: KATHY MCEWEN

Address Line 1:7809 LA GUARDIA DRIVEAddress Line 4:PLANO, TEXAS 75025

SIGNATURE: /KathyN	IcEwen8/	
DATE SIGNED: 05/09/2	014	
This do	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 1

source=IridescentIPRAssignment-May2-2014#page1.tif

ASSIGNMENT

Whereas, Iridescent Networks Inc. a Texas corporation, located at 7809 La Guardia Drive, Plano Texas 75025 ("Assignor"), is owner of the United States Patent Number: 7,639,612 B2 (the "Patent"), dated May 2, 2007, titled System and Method of providing bandwidth on demand (the "Invention"), for which United States Application was filed on May 2, 2007 (Serial No. 11/743,470) and issued as United States Patent No. 7,639,612 on December 29, 2009 (the "Issued Patent); and

Whereas, Kathy McEwen, the inventor of the Patent, an individual residing at 7809 La Guardia Drive, Plano, Texas 75025 ("Assignee"), who filed US Provisional Patent Application No. 60/796660, which was later filed and granted as the Patent, desires to acquire the entire right, title, and interest in the Issued Patent and any patents, reissues, substitutions, continuations, continuations-in-part, and extensions of said Issued Patent.

Now, therefore, for good and valuable consideration, Assignor, by these presents does hereby assign and transfer unto Assignee, its successors, assigns and legal representatives the full and exclusive right to the Issued Patent in the United States and the entire right, title and interest in the invention, Issued Patent and to any and all patents which may be granted therefor and/or therefrom in the United States, to all divisions, reissues, substitutions, continuations, continuations-in-part, and extensions of said Invention and Issued Patent. Patents hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the Invention, or patents resulting therefrom, insofar as Patents interest is concerned, to Assignee, of the entire right, title and interest in and to the same, for its sole use and benefit; and for the use and benefit of its legal representatives, to the full end of the term for which said patent(s) may be granted, as fully and entirely as the same would have been held by the Patents had this assignment not been made.

Assignor also assigns to Assignee, its successors, assigns and legal representatives the full and exclusive right, title and interest to the Invention disclosed in said Issued Patent throughout the world, including the right to file applications and obtain patents, utility models, industrial models, and designs for the Invention in the Assignee's own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of the Invention and all rights to register the Invention in appropriate registries, all foreign rights arising from pre-grant publication of the Issued Patent; and Assignor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee, its successors, assigns and legal representatives.

Assignor further agrees to: (a) cooperate with Assignee in the protection of the patent rights and prosecution and protection of foreign counterparts; (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer; and (c) perform such other acts as Assignee lawfully may request to obtain or maintain the Patent and any and all applications and registrations for the invention in any and all countries.

Date: May 2nd, 2014

Kathy McEwen, CEO, Iridescent Networks Inc.

On this 2nd day of May 2014, before me the undersigned Notary Public, personally appeared Kathy McEwen, CEO, Iridescent Networks, ASSIGNOR, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same. WITNESS my hand and official seal in Plano, Texas County of Collin on the date set forth in this certificate.

Notary Public

Commission Expires:

Ho Yoo My Commission Expires 02/22/2017



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
Alexandria, Virginia 22313-1450
www.uspho.gov

APPLICATION NUMBER FILING OR 371(C) DATE FIRST NAMED APPLICANT ATTY. DOCKET NO./TITLE 11/743,470 05/02/2007 Kathy McEwen

Kathy McEwen 7809 La Guardia Drive Plano, TX 75025

CONFIRMATION NO. 6891 POA ACCEPTANCE LETTER



Date Mailed: 08/26/2013

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/16/2013.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/dtvernon/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PALEAR AND AND ADDRESS OF PATENTS Alexandria, Vignini 22313-1450 www.uspto.gov

FILING OR 371(C) DATE FIRST NAMED APPLICANT ATTY. DOCKET NO./TITLE APPLICATION NUMBER 11/743,470 05/02/2007 Kathy McEwen IRID-29.481

25883 HOWISON & ARNOTT, L.L.P P.O. BOX 741715 DALLAS, TX 75374-1715

CONFIRMATION NO. 6891 POWER OF ATTORNEY NOTICE



Date Mailed: 08/26/2013

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/16/2013.

• The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/dtvernon/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

AUG 1 6 2013

PTO/SB/81A (12-08)

Approved for use through 11/30/2011. OMB 0651-0035 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STENT & RADENIE PATENT - POWER OF ATTORNEY OR TO REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND

CHANGE OF CORRESPONDENCE ADDRESS

		_
Patent Number	7, 639,612	
Issue Date	Dec 29, 2009	
First Named Inventor	Kathy McEwen	
Title	System and Method of Providing Bandwidth on Demand	
Attorney Docket Number		

Library Brown and Con-				
I hereby revoke	all previous powers of attorney given in t	ne above-io	entified patent.	
A Power of	Attorney is submitted herewith.			
OR				
	point Practitioner(s) associated with the follow or agent(s) with respect to the patent identifie			
the United S	States Patent and Trademark Office connected		to transact an ot	usiliess III
OR				
	point Practitioner(s) named below as my/our to transact all business in the United States I			
	Practitioner(s) Name		Registrati	on Number
Kathy McEw	en			
51			-11	
l ·	change the correspondence address for the above	•	nt to:	,
	associated with the above-mentioned Customer No	umber.		
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The address a	ssociated with Cüstomer Number:			
OR	<u> </u>			
Firm or Individual Name Kathy McEwen				
Address 7809 La Guardia Drive, Plano, Texas, USA 75025				
City	Plano	State	TX	Zip 75025
Country	USA			
Telephone	1-469-231-6778	Email	kathy@iridescer	ntnetworks.com
I am the:				
اشستا	ng ownership of the patent.			
OR Patent owner.				
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on				
SIGNATURE of Inventor or Patent Owner				
Signature atten VICC		Date	July 2, 2013	
Name Kathy McEwen		Telephone	1-469-231-6778	
Title and Company CEO, Iridescent Networks Inc				
NOTE: Signatures of all the inventors or patent owners of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.				
X *Total of 2	Total of 2 forms are submitted.			

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.





7809 La Guardia Dr, Plano, Texas. 75025

July 2nd, 2013

Dear Madam/Sir,

Please find 2 forms 81A Revocation of power of Attorney. The patents were originally filed by our attorney:

Howison & Arnott, L.L.P. P.O. Box 741715 Dallas, Texas 75374-1715

and we wish to take control of maintenance of our 2 USA patents.

I hope we have filled the forms in sufficiently please contact us if not and you need confirmation or for us to resend the forms.

Contact

Kathy McEwen, 7809 La Guardia Dr, Plano, Tx 75025

<u>Kathy@iridescentnetworks.com</u> Mobile 1-469-231-6778

Rest regards

ERIC-1004 RPX/Ericsson v. Iridescent

Page 9 of 216

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	11743470	MCEWEN, KATHY
		A 4 11 14
	Examiner	Art Unit

	ORIGINAL				INTERNATIONAL CLASSIFICATION									
	CLASS SUBCLASS							С	LAIMED		NO	N-CLAIMED		
370			231			G	0	1	R	31 / 08 (2006.0)				
CROSS REFERENCE(S)														
CLASS	SUE	BCLASS (ONI	SUBCLAS	S PER BLO	CK)									
370	395.21													
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	Claims renumbered in the same order as presented by applicant					СР	A [] T.D.		R.1.	47				
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-	16	10	32												

/Hooman Houshmand/ Examiner.Art Unit 2465	Oct 5, 09		ns Allowed:	
(Assistant Examiner)	(Date)	13		
/JAYANTI K PATEL/ Supervisory Patent Examiner.Art Unit 2465	01/12/2010	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	22	7	

U.S. Patent and Trademark Office Part of Paper No. 20100108



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. ISSUE DATE PATENT NO. ATTORNEY DOCKET NO. CONFIRMATION NO. 11/743,470 12/29/2009 7639612

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IRID-29.481

6891

25883

12/09/2009

HOWISON & ARNOTT, L.L.P. P.O. BOX 741715 DALLAS, TX 75374-1715

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Kathy McEwen, Plano, TX;

IR103 (Rev. 10/09)



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
Alexandria, Virginia 22313-1450
www.uspho.gov

APPLICATION NUMBER FILING OR 371(C) DATE FIRST NAMED APPLICANT ATTY. DOCKET NO./TITLE 11/743,470 05/02/2007 Kathy McEwen IRID-29.481

25883 HOWISON & ARNOTT, L.L.P P.O. BOX 741715 DALLAS, TX 75374-1715

CONFIRMATION NO. 6891 POA ACCEPTANCE LETTER



Date Mailed: 11/25/2009

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/16/2009.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/fbrown,iii/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



20594

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS Post 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

APPLICATION NUMBER FILING OR 371(C) DATE FIRST NAMED APPLICANT ATTY. DOCKET NO./TITLE 11/743,470 05/02/2007 Kathy McEwen 683592-0004

AKIN GUMP STRAUSS HAUER & FELD, LLP

POWER OF ATTORNEY NOTICE

P O BOX 688 DALLAS, TX 75313-0688

Date Mailed: 11/25/2009

CONFIRMATION NO. 6891

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/16/2009.

• The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/fbrown,iii/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

indicated unless correct maintenance fee notifica	ed below or directed oth	nerwise in Block I, by (a	a) specifying a new corre	spondence address; and	or (b) indicating a sepa	arate "PEE ADDRESS" fo
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bi	ock 1 for any change of address)	Not Fee pap hav	te: A certificate of mail (s) Transmittal. This cer ers. Each additional pap e its own certificate of n	ing can only be used for tificate cannot be used for her, such as an assignmen mailing or transmission.	or domestic mailings of the for any other accompanying ont or formal drawing, must
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						(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATT	TORNEY DOCKET NO.	CONFIRMATION NO.
11/743,470	05/02/2007		Kathy McEwen		683592-0004	6891
TITLE OF INVENTION	I: SYSTEM AND METI	IOD OF PROVIDING BA	ANDWIDTH ON DEMAP	ND		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEI	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	01/19/2010
EXAN	IINER	ART UNIT	CLASS-SUBCLASS			
HOUSHMAN	D, HOOMAN	2465	370-389000	-		
CFR 1.363). Change of corresponders form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-6 Number is required. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	inge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON	or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto listed, no name will be IHE PATENT (print or ty	o 3 registered patent attavely, le firm (having as a mer agent) and the names of pracys or agents. If no na printed. pe) patent. If an assignee is assignment.	orneys ,	ocument has been filed for
4a. The following fee(s)	are submitted:		b. Payment of Fee(s): (Pie:	ase first reapply any pr	reviously paid issue fee	oup entity
Advance Order -	No small entity discount p # of Copies	permitted)	Payment by credit car The Director is hereby overpayment, to Depo	y authorized to charge th	e required fee(s), any de	eficiency, or credit any n extra copy of this form).
5. Change in Entity Sta	tus (from status indicate is SMALL ENTITY stati		b. Applicant is no lon	iger claiming SMALL E	NTITY status. See 37 Cl	FR 1.27(g)(2).
		uired) will not be accepte tes Patent and Trademark		the applicant; a registere	d attorney or agent; or th	ne assignee or other party in
Authorized Signature	/Timothy F. B.	liss Reg. #50925	5/	Date	er 16, 2009	
Typed or printed nam	e_TIMOTHY F. BL	ISS		Registration No	50,925	
Alexanoria, virginia 223	113-1430.		on is required to obtain or 1.14. This collection is es depending upon the indi- e Chief Information Offic COMPLETED FORMS T spond to a collection of inf			d by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, number.
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

10/28/2009 21:04 9723121561

POSTAL CONNECTION

PAGE 04/04

IRID-29,481

PATENT

SUPPLEMENTAL DECLARATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention, design or discovery entitled

SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND

the specification of which was filed on May 2, 2007 as Application Serial No. 11/743,470;

I have reviewed and understand the contents of the above-identified specification, including the claims as originally filed and as amended in the amendments filed on November 4, 2008 and July 22, 2009; and

I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application in accordance with 37 C.F.R. § 1.56 (a).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issue thereon.

Y	Kathan	
Inventor's Signature:(1 start	_
Date: Oct.	28/2001	_
Residence (City, State):	PLANO, TEXAS	_

Full name of the Sole Inventor: / KATHY MCEWEN

Citizenship: (anadian

Post Office Address: 7809 LaGuardia Drive, Plano, Texas 75025

SUPPLEMENTAL DECLARATION S/N 11/743,470

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POSTAL CONNECTION

PAGE 02/04

PTO/SB/81 (01-09) Approved for use through 11/30/2011. OMB 0651-0036
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POWER OF ATTORNEY OR **REVOCATION OF POWER OF ATTORNEY** WITH A NEW POWER OF ATTORNEY CHANGE OF CORRESPONDENCE ADDRESS

Application Number	11/743,470
Filing Date	2007-05-02
First Named Inventor	KATHY MCEWEN
Title	SYSTEM AND METHOD OF PROVIDIN
Art Unit	2465
Examiner Name	HOOMAN HOUSHMAND
Afterney Docket Number	IRID-29.481

A Power of Altorrey is submitted herewith. A Power of Altorrey is submitted herewith. A Power of Altorrey is submitted herewith. OR I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: OR I hereby appoint Practitioner(s) named below as my/our attorney(s) or egant(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: Practitioner(s) Name									
Newby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:	hereby revoke all previous powers of attorney given in the above-identified application.								
Thereby appoint Practitioner(s) associated with the following Customer Number as myfour attomety(s) or prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: The practitioner(s) named below as myfour attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: Practitioner(s) Name	A Power of Attorney	A Power of Attorney is submitted herewith.							
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Inereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Petent and Trademark Office connected therewith: Practitioner(s) Name	identified above, and	ied above, and to transact all business in the United States Patent							
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This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to examplete this form analyor suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal									
Application Number:	ication Number: 11743470								
Filing Date:	02-May-2007								
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND								
First Named Inventor/Applicant Name:	Ka	thy McEwen							
Filer:	Tir	nothy Frank Bliss/Sเ	uzie Guthrie						
Attorney Docket Number:	68	3592-0004							
Filed as Small Entity									
Utility under 35 USC 111(a) Filing Fees									
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)				
Basic Filing:									
Pages:									
Claims:									
Miscellaneous-Filing:									
Petition:									
Patent-Appeals-and-Interference:									
Post-Allowance-and-Post-Issuance:									
Utility Appl issue fee		2501	1	755	755				
Publ. Fee- early, voluntary, or normal		1504	1	300	300				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD	(\$)	1055

Electronic Ac	Electronic Acknowledgement Receipt								
EFS ID:	6458765								
Application Number:	11743470								
International Application Number:									
Confirmation Number:	6891								
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND								
First Named Inventor/Applicant Name:	Kathy McEwen								
Customer Number:	20594								
Filer:	Timothy Frank Bliss								
Filer Authorized By:									
Attorney Docket Number:	683592-0004								
Receipt Date:	16-NOV-2009								
Filing Date:	02-MAY-2007								
Time Stamp:	16:52:51								
Application Type:	Utility under 35 USC 111(a)								
Payment information:	1								
Submitted with Payment	yes								
Payment Type	Deposit Account								
Payment was successfully received in RAM	\$1055								
RAM confirmation Number	3309								
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200780

File Name

Deposit Account

Authorized User File Listing:

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Pages (if appl.)

		Total Files Size (in bytes)	19	08284	
Information:					
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4	Fee Worksheet (PTO-875)	fee-info.pdf	32163	no	2
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Warnings:					
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1	Issue Fee Payment (PTO-85B)	IRI29481ISSFEE.pdf	1740750	no	1

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

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DALLAS, TX 75313-0688

10/19/2009

AKIN GUMP STRAUSS HAUER & FELD, LLP

EXAMINER

HOUSHMAND, HOOMAN

ART UNIT

PAPER NUMBER

2465

DATE MAILED: 10/19/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/743,470	05/02/2007	Kathy McEwen	683592-0004	6891

TITLE OF INVENTION: SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	01/19/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 3

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450 Alexandria, Virginia 22313-1450 or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

indicated unless correcte maintenance fee notificat	d belôw or directed otl	nerwise in Block 1, by (a	a) specifying a new co	orres	pondence address;	and/or	(b) indicating a sepa	rate "FEE ADDRESS" for
		ock 1 for any change of address)		Note Fee(s pape have	: A certificate of s) Transmittal. Thi rs. Each additiona its own certificate	mailing is certif I paper of mai	can only be used for icate cannot be used for such as an assignme ling or transmission.	or domestic mailings of the for any other accompanying to or formal drawing, must
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								(Depositor's name)
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								(Date)
APPLICATION NO. FILING DATE FIRST NAMED INVI				TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
11/743,470	05/02/2007		Kathy McEwen				683592-0004	6891
TITLE OF INVENTION:	SYSTEM AND METH	IOD OF PROVIDING BA	ANDWIDTH ON DEN	1AN	D			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055	01/19/2010
EXAMI	NER	ART UNIT	CLASS-SUBCLASS					
HOUSHMANI	O, HOOMAN	2465	370-389000					
"Fee Address" indipTO/SB/47; Rev 03-0/Number is required. 3. ASSIGNEE NAME AN PLEASE NOTE: Unlerecordation as set forth (A) NAME OF ASSIGNAME OF AS	cation (or "Fee Address 2 or more recent) attack ND RESIDENCE DATA ess an assignee is ident in 37 CFR 3.11. Comp	ed. Use of a Customer A TO BE PRINTED ON ' ified below, no assignee oletion of this form is NO	data will appear on the transfer of the transf	ingle or ag attor I be p r typ ne pa g an a	e firm (having as a gent) and the nam neys or agents. If orinted. e) tent. If an assign assignment. and STATE OR C	membles of upon name	er a 2p to be is 3	ocument has been filed for
4a. The following fee(s) a Issue Fee Publication Fee (No	re submitted: o small entity discount p	dipermitted)	b. Payment of Fee(s): (A check is enclos Payment by credi The Director is he	Pleas ed. t card	se first reapply ar	is atta	iously paid issue fee ched.	shown above) ficiency, or credit any n extra copy of this form).
5. Change in Entity Stat	us (from status indicate SMALL ENTITY state	*	☐ b. Applicant is no	lone	er claiming SMAl	L EN	ΓΙΤΥ status. See 37 Cl	FR 1 27(g)(2)
	l Publication Fee (if req	uired) will not be accepte	d from anyone other th					ne assignee or other party in
		tes ratent and Trademark			Date			
Typed or printed name	,				Registration N	lo		
This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231 Under the Paperwork Red	13-1430.							by the USPTO to process) gg athering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, number.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
11/743,470	05/02/2007	Kathy McEwen	683592-0004	6891	
20594 75	90 10/19/2009		EXAM	INER	
AKIN GUMP ST	RAUSS HAUER &	FELD, LLP	HOUSHMAN	D, HOOMAN	
P O BOX 688			ART UNIT	PAPER NUMBER	
DALLAS, TX 753	13-0688		2465		
			DATE MAILED: 10/19/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)								
	11/743,470	MCEWEN, KATHY								
Notice of Allowability	Examiner	Art Unit								
	Hooman Houshmand	2465								
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	plication. If not included n will be mailed in due course. THIS									
1. \boxtimes This communication is responsive to <u>amendment filed on 0</u>	<u> 07/22/2009</u> .									
2. ☑ The allowed claim(s) is/are <u>22 and 24-35</u> .										
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received:										
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.										
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give										
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the property of the sheet of the	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C	Office action of ngs in the front (not the back) of								
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT										
Attachment(s) 1. □ Notice of References Cited (PTO-892) 2. □ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. □ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. □ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. □ Examiner's Statement of Reasons for Allowance of Biological Material 9. □ Other /Jayanti K. Patel/ Supervisory Patent Examiner, Art Unit 2465										
	Ouporvisory Fatorit Exc	Similar, Art Offic 2-700								

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

Notice of Allowability

Part of Paper No./Mail Date 20091005

Application/Control Number: 11/743,470

Art Unit: 2465

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Timothy F. Bliss on October 5, 2009.

In the claims:

Claims 23, 36-40, 41-44 have been canceled.

Claim 22 has been amended as follows: Starting with the last period in the last sentence of the claim, the following text has been added:

[[.]];

and

receiving, by the controller, a notification from the portal that traffic on the connection has exceeded an authorized limit;

determining, by the controller, whether the connection should be terminated or allowed to continue; and

Application/Control Number: 11/743,470

Art Unit: 2465

instructing the portal, by the controller, whether to terminate or allow the

connection to continue based on the step of determining.

(Canceled) Claim 23

Claim 24 has been amended as follows: on the first line of the claim; "claim 23" has

been replaced with -- claim 22 --.

(Canceled) Claims 36-40

(Canceled) Claims 41-44

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hooman Houshmand whose telephone number is (571)

270-1817. The examiner can normally be reached on Monday - Friday 8am - 5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

ERIC-1004

RPX/Ericsson v. Iridescent

Page 3

Application/Control Number: 11/743,470 Page 4

Art Unit: 2465

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. H./ Examiner, Art Unit 2465

/Jayanti K. Patel/ Supervisory Patent Examiner, Art Unit 2465

EAST Search History

EAST Search History (Prior Art)

Ref Hits #		Search Query	DBs	Default Operator	Plurals	Time Stamp			
L1	1	((KATHY) near2 (MCEWEN)). INV.	US- PGPUB; USPAT	OR	ON	2009/10/05 16:00			
L3	3733	(370/229,231,395.21).CCLS.	US- PGPUB; USPAT	OR	OFF	2009/10/05 16:01			
L4	36271	codec	US- PGPUB; USPAT	SAME	ON	2009/10/05 16:07			
L5	327007	bandwidth	US- PGPUB; USPAT			2009/10/05 16:07			
L6	190	3 4 5	US- PGPUB; USPAT	Л		2009/10/05 16:15			
L7	3542	4 5	US- PGPUB; USPAT	SAME	SAME ON				
L8	81	3 7	US- PGPUB; USPAT	AND	ON	2009/10/05 16:15			
L9	126	control\$3 (QoS OR (quality WITH service)) portal	US- PGPUB; USPAT	SAME	ON	2009/10/05 16:18			
L10	119858	(("370").CLAS.	US- PGPUB; USPAT	OR	OFF	2009/10/05 16:19			
L11	43	9 10	US- PGPUB; USPAT	AND	ON	2009/10/05 16:19			
L15	231	negotiat\$3 reserve resource	US- PGPUB; USPAT	SAME	ON	2009/10/05 16:21			
L16	85	15 10	US- PGPUB; USPAT	AND	ON	2009/10/05 16:21			
L17	62541	end\$1point	US- PGPUB; USPAT			2009/10/05 16:23			
L20	125	7 17	US- PGPUB; USPAT	SAME	ON	2009/10/05 16:24			

L21	89	20 10	US- PGPUB; USPAT	AND	ON	2009/10/05 16:25
L22	467	control\$3 portal (limit OR max OR maximum)	US- PGPUB; USPAT	SAME	ON	2009/10/05 16:26
L23	30	22 10	US- PGPUB; USPAT	AND	ON	2009/10/05 16:27

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	0	((KATHY) near2	USPAT; UPAD	OR	ON	2009/10/05 16:00
		(MCEWEN)).INV.				

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	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	11743470	MCEWEN, KATHY
	Examiner	Art Unit
	Hooman Houshmand	2465

ORIGINAL							INTERNATIONAL CLASSIFICATION								
	CLASS			SUBCLASS		CLAIMED						NON-CLAIMED			
370	370 231				G	0	1	R	31 / 08 (2006.01.01)						
CROSS REFERENCE(S)															
CLASS	ASS SUBCLASS (ONE SUBCLASS PER BLOCK)														
370	395.21														
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	Claims renumbered in the same order as presented by applicant					applicant		СР	'A [] T.D.		R.1.	47		
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
-	1	-	17	11	33										
-	2	-	18	12	34										
-	3	-	19	13	35										
-	4	-	20	-	36										
-	5	-	21	-	37										
-	6	1	22	-	38										
-	7	-	23	-	39										
-	8	2	24	-	40										
-	9	3	25	-	41										
-	10	4	26	-	42										
-	11	5	27	-	43										
-	12	6	28	-	44										
-	13	7	29												
-	14	8	30												
-	15	9	31												
-	16	10	32												

/Hooman Houshmand/ Examiner.Art Unit 2465 (Assistant Examiner)	Oct 5, 09 (Date)	Total Claims Allowed:		
		O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	22	7	

U.S. Patent and Trademark Office Part of Paper No. 20091005

Search Notes



Application/Control No.	Applicant(s)/Patent Under Reexamination	
11743470	MCEWEN, KATHY	
Examiner	Art Unit	
Hooman Houshmand	2465	

SEARCHED				
Class	Date	Examiner		
370	229, 231,395.21 (text search only)	10/5/2009	HH	

SEARCH NOTES				
Search Notes	Date	Examiner		
EAST, NPL	10/5/2009	HH		
Inventorship search completed in eDAN	10/5/2009	HH		

INTERFERENCE SEARCH					
Class	Subclass	Date	Examiner		
370	229, 231,395.21 (see attached search history printout)	10/5/2009	HH		

/JAYANTI K PATEL/ Supervisory Patent Examiner.Art Unit 2465

U.S. Patent and Trademark Office Part of Paper No.: 20091005

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	0	((KATHY) near2 (MCEWEN)). INV.	USPAT; UPAD	OR	ON	2009/10/05 16:00
L24	43	(370/229,231,395.21).OCLS.	UPAD	OR	OFF	2009/10/05 16:51
L25	17736	codec	USPAT; UPAD	SAME	ON	2009/10/05 16:51
L26	190753	bandwidth	USPAT; UPAD	OR	ON	2009/10/05 16:52
L27	75	(25 26).dm.	USPAT; UPAD	SAME	ON	2009/10/05 16:52
L28	65	control\$3 (QoS OR (quality WITH service)) portal	USPAT; UPAD	SAME	ON	2009/10/05 16:54
L29	3	L28.clm.	USPAT; UPAD	SAME	ON	2009/10/05 16:54
L30	130	negotiat\$3 reserve resource	USPAT; UPAD	SAME	ON	2009/10/05 16:58
L31	5	L30.clm.	USPAT; UPAD	SAME	ON	2009/10/05 16:58
L32	31541	end\$1point	USPAT; UPAD	OR	ON	2009/10/05 16:58
L33	4408	L32.clm.	USPAT; UPAD	SAME	ON	2009/10/05 16:59
L35	5	L32 L24	USPAT; UPAD	AND	ON	2009/10/05 17:00
L36	251	control\$3 portal (limit OR max OR maximum)	USPAT; UPAD	SAME	ON	2009/10/05 17:01
L37	17	L36.clm.	USPAT; UPAD	SAME	ON	2009/10/05 17:02

10/5/2009 5:02:32 PM

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PTO/SB/30EFS (06-09)

Request for Continued Examination (RCE)

Approved for use through 07/31/2009. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)								
Application Number	11743470	Filing Date	2007-05-02	Docket Number (if applicable)	IRID-29,481	Art Unit	2419	
First Named Inventor	KATHY MCEWER	N		Examiner Name	HOOMAN HOUSHMAND	•	•	
Request for C	This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV							
		s	UBMISSION REQ	UIRED UNDER 37	CFR 1.114			
in which they	were filed unless a	pplicant ins		applicant does not wi	nents enclosed with the RCE wi sh to have any previously filed t			
i '	y submitted. If a fin on even if this box		•	any amendments file	d after the final Office action ma	ay be con	sidered as a	
☐ Co	nsider the argume	nts in the A	ppeal Brief or Reply	Brief previously filed	on			
Ott	ner							
▼ Enclosed								
X An	nendment/Reply							
☐ Info	ormation Disclosur	e Statemer	nt (IDS)					
Aff	idavit(s)/ Declarati	on(s)						
Ot	her 							
			MIS	CELLANEOUS				
, , ,			, ,	requested under 37 ler 37 CFR 1.17(i) re	CFR 1.103(c) for a period of moquired)	onths _		
Other								
	FEES							
★ The Dire	The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 200780							
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED								
▼ Patent	Practitioner Signa	nture						
Applica	ant Signature							

Request for Continued Examination (RCE)

Approved for use through 07/31/2009. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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	Signature of Registered U.S. Patent Practitioner					
Signature	/Timothy F. Bliss Reg. #50925/	Date (YYYY-MM-DD)	2009-07-22			
Name	TIMOTHY F. BLISS	Registration Number	50925			

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Approved for use through 07/31/2009. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARMENT OF COMMERCE

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PETITIO	ON FOR EXTENSION OF TIME UNDER	Docket Number (Option	Docket Number (Optional)			
	FY 2009					
	ees pursuant to the Consolidated Appropriations Act on Number 11/743,470	; 2005 (H.R. 4818).)	Filed 2007-05-02			
_	YSTEM AND METHOD OF PROVIDING	BANDWIDTH ON I				
Art Unit		2 27 (112 111 211 211 211 211 211 211 211 21	Examiner HOUSHM	MAND HOOMAN		
		20(-) (() (1				
application	request under the provisions of 37 CFR 1.13 on.	36(a) to extend the peri	lod for filing a reply in th	e above identified		
The requ	ested extension and fee are as follows (che	ck time period desired	and enter the appropria	te fee below):		
_	_	<u>Fee</u>	Small Entity Fee			
[One month (37 CFR 1.17(a)(1))	\$130	\$65	\$		
[Two months (37 CFR 1.17(a)(2))	\$490	\$245	\$		
[✓ Three months (37 CFR 1.17(a)(3))	\$1110	\$555	\$ <u>555</u>		
[Four months (37 CFR 1.17(a)(4))	\$1730	\$865	\$		
[Five months (37 CFR 1.17(a)(5))	\$2350	\$1175	\$		
✓ App	licant claims small entity status. See 37 CFR	1.27.				
A cl	neck in the amount of the fee is enclosed	d.				
☐ Pay	ment by credit card. Form PTO-2038 is	attached.				
☐ The	Director has already been authorized to	charge fees in this	application to a Depo	sit Account.		
	Director is hereby authorized to charge posit Account Number 20-0780/IRID-29,		be required, or credi	t any overpayment, to		
	RNING: Information on this form may become pride credit card information and authorization c		nation should not be inc	luded on this form.		
I am the	e applicant/inventor.					
	assignee of record of the enti					
	attorney or agent of record. R	egistration Number_				
	attorney or agent under 37 Cl Registration number if acting unc	FR 1.34. ler 37 CFR 1.34 <u>50,</u> 925	5			
/Tim	nothy F. Bliss Reg. #50925/	2009-07-22				
	Signature	Date				
TIM	OTHY F. BLISS		972-479-0462			
	Typed or printed name	Teleph	one Number			
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.						
☑ To	otal of1 forms a	are submitted.				

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

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The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal								
Application Number:	11	743470						
Filing Date:	02-	02-May-2007						
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND							
First Named Inventor/Applicant Name:	Kathy McEwen							
Filer:	Timothy Frank Bliss/BETH PIEROTTI							
Attorney Docket Number:	Attorney Docket Number: 683592-0004							
Filed as Small Entity								
Utility under 35 USC 111(a) Filing Fees								
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)			
Basic Filing:								
Pages:								
Claims:								
Claims in excess of 20		2202	2	26	52			
Miscellaneous-Filing:								
Petition:								
Patent-Appeals-and-Interference:								
Post-Allowance-and-Post-Issuance:								
Extension-of-Time:								

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)			
Extension - 3 months with \$0 paid	2253	1	555	555			
Miscellaneous:							
Request for continued examination	2801 1 405		405	405			
	Tot	1012					

Electronic Ack	Electronic Acknowledgement Receipt					
EFS ID:	5749655					
Application Number:	11743470					
International Application Number:						
Confirmation Number:	6891					
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND					
First Named Inventor/Applicant Name:	Kathy McEwen					
Customer Number:	20594					
Filer:	Timothy Frank Bliss/BETH PIEROTTI					
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Attorney Docket Number:	683592-0004					
Receipt Date:	22-JUL-2009					
Filing Date:	02-MAY-2007					
Time Stamp:	16:00:15					
Application Type:	Utility under 35 USC 111(a)					

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1012
RAM confirmation Number	2336
Deposit Account	200780
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.	
1		IDI20491444DAF mdf	124634	yes	12	
'		IRI29481AMDAF.pdf	02226a5cf3f5d236278111728de781d9994 435b6			
	Multip	art Description/PDF files in .	zip description	'		
	Document Des	cription	Start	E	nd	
	Amendment Af	ter Final	1		1	
	Claims	2	ı	5		
	Applicant Arguments/Remarks	7	12			
Warnings:						
Information:						
2	Request for Continued Examination	IRI29481RCE.pdf	777539	no	3	
2	(RCE)	iniz946 i nCE.pui	e063781049af16c5c086f8a515172d2f6cce 31cd	110		
Warnings:						
Information:						
3	Extension of Time	IRI29481EXTN.pdf	321915	no	2	
3	Extension of Time	iniz9401EXTN.pui	d9330df8001711fea60ab393d4be68ae6fbf b4f1	110		
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4	Fan Warkshaat (PTO 975)	for info walf	34006			
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IRID-29,481 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: McEWEN, Kathy

Serial No.: 11/743,470

Confirmation No.: 6891

Filed: May 2, 2007

Group: 2419

Examiner: HOUSHMAND, Hooman

For: SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON

DEMAND

Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT AND RESPONSE TO OFFICE ACTION

This communication is responsive to the Examiner's Office Action mailed January 22, 2009. Applicant is submitting herewith a Request for Continued Examination. Reconsideration is respectfully requested.

<u>Amendments to the Claims</u> are reflected in the listing of claims beginning on page 2 of this paper.

Remarks/Arguments begin on page 7 of this paper.

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In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-21. (Canceled)

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22. (New) A method for providing bandwidth on demand comprising:

receiving, by a controller positioned in a network, a request for a high quality of service connection supporting any one of a plurality of one-way and two-way traffic types between an originating end-point and a terminating end-point, wherein the request comes from the originating end-point and includes at least one of a requested amount of bandwidth and a codec;

determining, by the controller, whether the originating end-point is authorized to use the requested amount of bandwidth or the codec and whether the terminating end-point can be reached by the controller;

directing, by the controller, a portal that is positioned in the network and physically separate from the controller to allocate local port resources of the portal for the connection;

negotiating, by the controller, to reserve far-end resources for the terminating end-point; and

providing, by the controller to the portal, routing instructions for traffic corresponding to the connection so that the traffic is directed by the portal based only on the routing instructions provided by the controller, wherein the portal does not perform any independent routing on the traffic, and wherein the connection extending from the originating end-point to the terminating end-point is provided by a dedicated bearer path that includes a required route supported by the portal and dynamically provisioned by the controller, and wherein control paths for the connection are supported only between each of the originating and terminating end-points and the controller and between the portal and the controller.

23. (New) The method of claim 22 further comprising:

receiving, by the controller, a notification from the portal that traffic on the connection has exceeded an authorized limit;

determining, by the controller, whether the connection should be terminated or allowed to continue; and

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instructing the portal, by the controller, whether to terminate or allow the connection to

continue based on the step of determining.

24. (New) The method of claim 23 wherein, if the connection is allowed to continue, the

instructing includes a pre-set time limit.

25. (New) The method of claim 22 wherein the controller is associated with a single class of

service and wherein a service type of the request identifies the request as being of the single class

of service and the request is routed to the controller based on the service type.

26. (New) The method of claim 22 wherein the request is received by the controller based on

signaling from a user to the controller.

27. (New) The method of claim 26 wherein the request is received from the user via one of a

directory request, an Internet Protocol address, and a web page.

28. (New) The method of claim 22 further comprising:

identifying, by the controller, billing information of a user corresponding to the request

for a high quality of service connection; and

charging the user for the connection.

29. (New) The method of claim 28 wherein the charging may be based on at least one of a

service type, an elapsed period of time, a codec type, and an amount of bandwidth used.

30. (New) The method of claim 22 wherein determining whether the originating end-point is

authorized is based on information in a subscriber database.

31. (New) The method of claim 22 wherein the negotiating, by the controller, to reserve far-

end resources on the terminating end-point includes negotiating with another controller

associated with the terminating end-point.

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32. (New) The method of claim 22 wherein the negotiating, by the controller, to reserve far-

end resources for the terminating end-point includes negotiating directly with the terminating

end-point.

33. (New) The method of claim 22 wherein the negotiating, by the controller, to reserve far-

end resources for the terminating end-point includes negotiating a video codec for use with the

connection to avoid video codec conversion between the originating and terminating end-points.

34. (New) The method of claim 22 wherein the connection is a point-to-point connection

between only the originating and terminating end-points.

35. (New) The method of claim 22 wherein the connection is a point-to-multipoint

connection between one of the originating and terminating end-points and the other of the

originating and terminating end-points and at least one other end-point.

36. (New) A method for providing bandwidth on demand comprising:

receiving, by a portal in a network from a physically separate controller in the network

via a control path, instructions to allocate local port resources for a high quality of service

connection, wherein the instructions include real-time authorization of a user for the connection;

receiving, by the portal from the controller, routing information for traffic corresponding

to the connection, wherein the routing information identifies a required route and wherein the

portal does not perform additional routing;

routing, by the portal, traffic corresponding to the connection based on the routing

instructions;

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identifying, by the portal, that the traffic corresponding to the connection has exceeded an

allowed amount of traffic;

notifying the controller, by the portal, of the exceeded allowed amount of traffic; and

receiving, by the portal from the controller, an instruction on handling the allowed

amount of traffic that has been exceeded.

37. (New) The method of claim 36 further comprising terminating the connection, by the

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portal, based on the instruction received from the controller.

38. (New) The method of claim 36 further comprising allowing the connection to continue

until a pre-set time limit is reached based on the instruction received from the controller.

39. (New) The method of claim 36 further comprising discarding, by the portal, any received

packets corresponding to a user not authorized by the controller.

40. (New) The method of claim 36 further comprising notifying the controller, by the portal,

if traffic corresponding to the connection is no longer received.

41. (New) A method for providing bandwidth on demand comprising:

receiving, by a controller positioned in a network, a request for a high quality of service

connection between an originating end-point and a terminating end-point, wherein the request

includes at least one of a requested amount of bandwidth and a video codec;

determining, by the controller, whether the originating end-point is authorized to use the

requested amount of bandwidth or the video codec;

communicating, by the controller, with the originating and terminating end-points to

ensure that the connection is free from video codec conversion;

directing, by the controller, one of a plurality of portals that is positioned in the network

nearest to the originating end-point and physically separate from the controller to allocate local

port resources of the portal for the connection; and

sending, by the controller to the portal, routing instructions for the connection, wherein

traffic for the connection is routed by the portal based only on the routing instructions, and

wherein the connection extending from the originating end-point to the terminating end-point is

provided by a dedicated bearer path that includes a required route supported by the portal and

dynamically provisioned by the controller, and wherein control paths for the connection are

supported between each of the originating and terminating end-points and the controller and

between the portal and the controller.

42. (New) The method of claim 41 further comprising negotiating, by the controller, to

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reserve far-end resources on the terminating end-point.

43. (New) The method of claim 42 wherein the negotiating is performed with one of another

controller associated with the terminating end-point or directly with the terminating end-point.

44. (New) The method of claim 41 further comprising:

receiving, by the controller, a notification from the portal that traffic on the connection

has exceeded an authorized limit; and

instructing the portal, by the controller, whether to terminate or allow the connection to

continue.

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PTO/SB/06 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Α		Docket Number 3,470		ling Date 02/2007	To be Mailed
	AF	PPLICATION	AS FILE		(Column 2)		SMALL	ENTITY 🛛	OR		HER THAN ALL ENTITY
	FOR	١	NUMBER FII		JMBER EXTRA		RATE (\$)	FEE (\$)		RATE (\$)	FEE (\$)
口	BASIC FEE (37 CFR 1.16(a), (b),	or (c))	N/A	\neg	N/A	1	N/A		1	N/A	
	SEARCH FEE (37 CFR 1.16(k), (i), (i)		N/A		N/A	1	N/A		1	N/A	
	EXAMINATION FE (37 CFR 1.16(o), (p), (c)	ĒΕ	N/A		N/A	1	N/A		1	N/A	
	TAL CLAIMS CFR 1.16(i))		mir	nus 20 = *		1	x \$ =		OR	x \$ =	
IND	DEPENDENT CLAIM CFR 1.16(h))	IS	m	inus 3 = *			x \$ =			x \$ =	
□APPLICATION SIZE FEE (37 CFR 1.16(s)) If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).											
	MULTIPLE DEPEN	IDENT CLAIM PF	RESENT (3	7 CFR 1.16(j))							
* If	the difference in colu	umn 1 is less thar	ı zero, ente	r "0" in column 2.			TOTAL			TOTAL	
	APPI	(Column 1)	AMENE	OED – PART II (Column 2)	(Column 3)	•	OTHER THAN SMALL ENTITY OR SMALL ENTITY				
AMENDMENT	07/22/2009	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
)ME	Total (37 CFR 1.16(i))	* 23	Minus	** 21	= 2		X \$26 =	52	OR	x \$ =	
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	FIRST PRESEN	NTATION OF MULT	PLE DEPEN	DENT CLAIM (37 CF	FR 1.16(j))]			OR		
						•	TOTAL ADD'L FEE	52	OR	TOTAL ADD'L FEE	
L		(Column 1)	_	(Column 2)	(Column 3)	_	_		_	_	
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
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Ξ U	Application Si	ize Fee (37 CFR	1.16(s))								
AM	FIRST PRESEN	NTATION OF MULT	PLE DEPEN	IDENT CLAIM (37 CF	FR 1.16(j))]			OR		
							TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
** If	*If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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REMARKS

Applicant has carefully reviewed the Office Action dated January 22, 2009. Applicant has canceled all previous claims 1-21 and added new claims 22-44. Reconsideration and favorable action is respectfully requested. As described below, Applicant has reviewed the Examiner's various rejections under §§ 112 and 103 and has attempted to address the previous rejections as they relate to the newly added claims.

Rejections under § 112

Applicant submits that many of the previous rejections under § 112 have been rendered moot and are not addressed herein as they are based on language no longer present in the claims. Accordingly, Applicant submits that the § 112 rejections as detailed in paragraphs 4-7 and 10-13 of the Final Office action are now moot. However, the rejection of the phrase "high quality and low latency" as detailed in paragraph 8 of the Final Office action is addressed below.

Applicant's current claims include the phrase "high quality of service connection" and Applicant submits that the current language is supported by the specification. More specifically, Applicant references Fig. 3 of the disclosure, which is reproduced below for convenience:

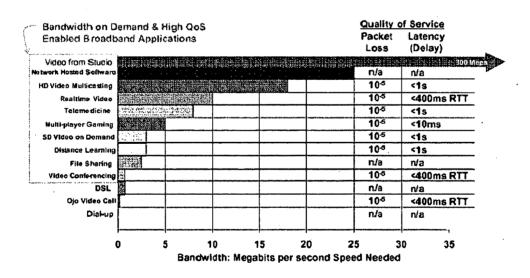


Figure 3

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As illustrated by the boxed set of applications on the left side of Fig. 3, high QoS (quality

of service) may be viewed in the present application as having speeds varying from

approximately 1-300 megabits per second, packet loss requirements that are typically about 10⁻⁵,

and latency requirements that are typically less than one second. These are commonly used

parameters and, as illustrated in Fig. 3, often vary somewhat based on the type of application.

For example, video conferencing may be possible with the listed parameters, while HD video

multicasting typically has more stringent requirements in order to be acceptable. As the

specification states in paragraph [0006] with respect to Fig. 3:

The services that may be delivered on broadband are many,

ranging from real-time critical applications for communication

purposes: video calling, multi-player gaming, telemedicine,

television studio broadcast interviews, and high-definition news

multicasting to name a few. These examples and a few others are

listed in FIG. 3. These real time critical applications are very

sensitive to any delay and for any that may include video or

gaming frames, very sensitive to any variance in the delay.

Applications which include video are also sensitive to any packets

(or frames) which may be lost in the transmission (0.0001% packet

loss is the preferred quality for video transmission).

Accordingly, Applicant submits that the term "high quality of service connection" is supported

by the various connection parameters illustrated for high quality of service enabled bandwidth

applications in Fig. 3.

Rejections under § 103

Applicant submits that many of the previous rejections under § 103 have been rendered

moot due to the cancellation of the previous claims and the addition of new claims that contain

elements that have not yet been examined. However, Applicant will attempt to generally address

some of the concerns raised in the Final Office action as they may relate to the new claims.

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The Final Office action appears to rely largely on Ooghe to disclose a control system

(Final Office action, page 6, lines 5-7) and on Khakzar to disclose instructing a bearer platform

(Final Office action, page 6, lines 8-14). These were combined with additional references to

render obvious various elements of canceled claims 1-21. However, as will be described below,

Applicant submits that the combination of Ooghe, Khakzar, and the other references cited in the

Final Office action fail to teach or suggest each element of the newly added claims.

As a preliminary matter, Applicant notes that much of the cited art is clearly directed to

access networks and other connections that are not end-to-end. For example, Ooghe is

"applicable to access networks across which virtual connections have been provisioned to meet

traffic and QoS requirements." (Ooghe, Abstract, lines 1-3) Similarly, Khakzar "concerns a

method of controlling an access network (AN)" (Khakzar, Abstract, lines 1-2) The Final

Office action even states that "[i]t would have been obvious to a person of ordinary skill in the

art, at the time the invention was made, to combine the teachings of Khakzar with Ooghe to

control an access network." (Emphasis added) (Final Office action, page 6, lines 14-16)

However, Applicant's claimed invention is directed to end-to-end connection

management (i.e., between an originating end-point and a terminating end-point) with a

controller that provides "end-to-end quality assurance." (Specification, para. [0031]) For

example, "[t]he Controller 712 accepts requests from an originating end-point to access the

network with a high quality connection dynamically. The Controller 712 then negotiates across

the network with the terminating end-point(s) to set up the connection, and ensures

interoperability of service type (if used) and video codec type, and quality bandwidth reservation

end-to-end." (Specification, para. [0033])

Applicant notes that an "end-point" as used in the specification refers to both an

originating point and a terminating point relative to the entire connection (e.g., end-to-end).

(See, e.g., Specification, paras. [0033] and [0038]) In other words, the terms "originating end-

point" and "terminating end-point" as used in the claims do not refer to intermediate points in a

connection (e.g., network nodes or elements supporting the connection such as the controller and

portal) but rather to the two sides engaged in the connection.

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New claims 22-35

Applicant submits that new claim 22 is allowable over the cited art. More specifically,

claim 22 recites functionality for establishing a connection between an originating end-point and

a terminating end-point that is provided by a controller that is physically separate from a portal

that is used to support the connection. To this end, claim 22 recites in part "determining, by the

controller, whether the originating end-point is authorized to use the requested amount of

bandwidth or the codec and whether the terminating end-point can be reached by the controller;

negotiating, by the controller, to reserve far-end resources for the terminating end-point; and

providing, by the controller to the portal, routing instructions for traffic corresponding to the

connection so that traffic is directed by the portal based only on the routing instructions provided

by the controller, wherein the portal does not perform any independent routing on the traffic, and

wherein the connection extending from the originating end-point to the terminating end-point is

provided by a dedicated bearer path that includes a required route supported by the portal and

dynamically provisioned by the controller, and wherein signal paths for the connection are

supported only between each of the originating and terminating end-points and the controller and

between the portal and the controller."

Applicant submits that the cited art, taken separately or in combination, fails to teach or

suggest the above recited elements of claim 22, including the recited relationship between the

controller and the portal in establishing and maintaining an end-to-end connection. Dependent

claims 23-35 depend from and further limit independent claim 22 and are therefore allowable for

the same reasons described above with respect to claim 22. In addition, each of claims 23-35

also provide additional patentable subject matter when combined with independent claim 22 and

are allowable for this reason as well.

New claims 36-40

Applicant submits that new claim 36 is allowable over the cited art. More specifically,

claim 36 recites functionality provided by a portal that is physically separate from a controller

that provides instructions to the portal.

More specifically, claim 36 recites in part "receiving, by a portal in a network from a

physically separate controller in the network via a control path, instructions to allocate local port

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resources for a high quality of service connection, wherein the instructions include real-time

authorization of a user for the connection; receiving, by the portal from the controller, routing

information for traffic corresponding to the connection, wherein the routing information

identifies a required route and wherein the portal does not perform additional routing; routing, by

the portal, traffic corresponding to the connection based on the routing instructions; identifying,

by the portal, that the traffic corresponding to the connection has exceeded an allowed amount of

traffic; notifying the controller, by the portal, of the exceeded allowed amount of traffic; and

receiving, by the portal from the controller, instructions on handling the allowed amount of

traffic that has been exceeded."

Applicant submits that the cited art, taken separately or in combination, fails to teach or

suggest the above recited elements of claim 36, including the recited relationship between the

portal and the controller. Dependent claims 37-40 depend from and further limit independent

claim 36 and are therefore allowable for the same reasons described above with respect to claim

36. In addition, each of claims 37-40 also provide additional patentable subject matter when

combined with independent claim 36 and are allowable for this reason as well.

New claims 41-44

Applicant submits that new claim 41 is allowable over the cited art. More specifically,

claim 41 recites functionality for establishing a connection between an originating end-point and

a terminating end-point that is provided by a controller that is physically separate from a portal

that is used to support the connection. More specifically, claim 41 recites in part "directing, by

the controller, one of a plurality of portals that is positioned in the network nearest to the

originating end-point and physically separate from the controller to allocate local port resources

of the portal for the connection; and sending, by the controller to the portal, routing instructions

for the connection, wherein traffic for the connection is routed by the portal based only on the

routing instructions, and wherein the connection extending from the originating end-point to the

terminating end-point is provided by a dedicated bearer path that includes a required route

supported by the portal and dynamically provisioned by the controller, and wherein control paths

for the connection are supported between each of the originating and terminating end-points and

the controller and between the portal and the controller."

AMENDMENT AND RESPONSE

SN: 11/743,470

Atty. Dkt. No. IRID-29,481

Page 11 of 12

ERIC-1004

Applicant submits that the cited art, taken separately or in combination, fails to teach or

suggest the above recited elements of claim 41, including the recited relationship between the

controller and the portal. Dependent claims 42-44 depend from and further limit independent

claim 41 and are therefore allowable for the same reasons described above with respect to claim 41. In addition, each of claims 42-44 also provide additional patentable subject matter when

combined with independent claim 41 and are allowable for this reason as well.

Conclusion

Applicant has now made an earnest attempt in order to place this case in condition for

allowance. For the reasons stated above, Applicant respectfully requests full allowance of the

claims as amended. Please charge any additional fees or deficiencies in fees or credit any

overpayment to Deposit Account No. 20-0780/IRID-29,481 of HOWISON & ARNOTT, L.L.P.

Respectfully submitted, HOWISON & ARNOTT, L.L.P.

Attorneys for Applicant

/Timothy F. Bliss Reg. #50925/

Timothy F. Bliss

Registration No. 50,925

TFB/mep

P.O. Box 741715

Dallas, Texas 75374-1715

Tel: 972-479-0462

Fax: 972-479-0464

July 22, 2009

AMENDMENT AND RESPONSE

SN: 11/743,470

Atty. Dkt. No. IRID-29,481

Page 12 of 12

ERIC-1004

RPX/Ericsson v. Iridescent

Page 55 of 216

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CHANGE OF CORRESPONDENCE ADDRESS Application

Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Application Number	11/743, 470	
Filing Date	5/2/2007	
First Named Inventor	Kathy McEwen	
Art Unit	2419	·
Examiner Name	Houshmand, H.	
Attorney Docket Number	483592-1001,10	2,0004

Please char	ge the Correspondence Address for the above	e-identif	ied patent application	on to:
	Idress associated with ner Number:	43		
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	Assignee of record of the entire interest. Statement under 37 CFR 3.73(b) is enclosed	d. (Form	n PTO/SB/96).	:
囡	Attorney or agent of record. Registration Nu	mber_	37,812	
	Registered practitioner named in the application executed oath or declaration. See 37 CFR 1			
Signature			,	
Typed or Printed Name	Ruben C. Deleon			
Date 3/3	2012009	Teleph	214-45	9-3425
NOTE: Signatures of a forms if more than one	Il the inventors or assignees of record of the entire interest e signature is required, see below*.	or their rep	presentative(s) are requir	ed, Submit multiple
TV Total of	forms are submitted			·

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Application Number	11/743,470
Filing Date	5/2/2007
First Named Inventor	Kathy McEwen
Art Unit	2419
Examiner Name	Houshmand, H.
Attorney Docket Number	483592-1001

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Assignee of record of the entire interest, Statement under 37 CFR 3.73(b) is end		3/96).
Attorney or agent of record. Registration	Number <u>37, 8</u>	312
Registered practitioner named in the appearance of the executed oath or declaration. See 37 CF		
Signature		
Typed or Printed Ruben C. Deleo		
Date 3/20/2009	Telephone $\hat{\alpha}$	14-459-3425
NOTE: Signatures of all the inventors or assignees of record of the entire interpret forms if more than one signature is required, see below.	erest or their representativ	e(s) are required. Submit multiple
*Total offorms are submitted.		

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EFS ID:	5259380						
Application Number:	11743470						
International Application Number:							
Confirmation Number:	6891						
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND						
First Named Inventor/Applicant Name:	Kathy McEwen						
Customer Number:	20594						
Filer:	Ruben C. DeLeon						
Filer Authorized By:							
Attorney Docket Number:	683592-0004						
Receipt Date:	01-MAY-2009						
Filing Date:	02-MAY-2007						
Time Stamp:	13:48:01						
Application Type:	Utility under 35 USC 111(a)						

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Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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National Stage of an International Application under 35 U.S.C. 371

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Application Number

2007 CORRESPONDENCE ADDRESS Filing Date Application McEwen First Named Inventor Art Unit Address to: Commissioner for Patents Examiner Name P.O. Box 1450 Alexandria, VA 22313-1450 183592-1001 Attorney Docket Number Please change the Correspondence Address for the above-identified patent application to: The address associated with **Customer Number:** OR Firm or Individual Name Address City State Zip Country Telephone Email This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124). I am the: Applicant/Inventor Assignee of record of the entire interest. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). Attorney or agent of record. Registration Number 37,812 Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number Signature Typed or Printed Name Telephone 2009 | Telephone 214-459 - 3424 entors or assignces of record of the entire interest or their representative(s) are required. Submit multiple Date NOTE: Signatures of all the inv Total of This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this torm and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
11/743,470	05/02/2007	Kathy McEwen	683592-0004	6891	
20594 7590 04/27/2009 AKIN GUMP STRAUSS HAUER & FELD, LLP P O BOX 688			EXAMINER		
			HOUSHMAND, HOOMAN		
DALLAS, TX 75313-0688			ART UNIT	PAPER NUMBER	
			2419		
			MAIL DATE	DELIVERY MODE	
			04/27/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
Interview Summary	11/743,470	MCEWEN, KATH	łΥ
merview dummary	Examiner	Art Unit	
	Hooman Houshmand	2419	
All participants (applicant, applicant's representative, PTO	personnel):		
(1) <u>Hooman Houshmand (PTO)</u> .	(3) <u>Cynthia Dashiell</u> .		
(2) Ruben C. DeLeon(Attorney).	(4) <u>Ghasan Naim</u> .		
Date of Interview: 21 April 2009.			
Type: a)⊠ Telephonic b)⊡ Video Conference c)⊡ Personal [copy given to: 1)⊡ applicant 2	2)∏ applicant's representative	e]	
Exhibit shown or demonstration conducted: d) Yes If Yes, brief description:	e)⊠ No.		
Claim(s) discussed: <u>1</u> .			
Identification of prior art discussed: Ooghe, Khakzar, Chen	g, Rawlins, Higgins.		
Agreement with respect to the claims f) \square was reached. g) \boxtimes was not reached. h) \square N/A.			
Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: discussed USC 112 rejections and the references applied to the claimed limitations. Discussed that any additions or changes to the claimed limitations needs to be supported by the original disclosure. Discussed the need for further examination and search any time the claimed limitations are changed. (A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.) THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.			
/Hooman Houshmand/ Examiner, Art Unit 2419			

Electronic Acknowledgement Receipt		
EFS ID:	5160089	
Application Number:	11743470	
International Application Number:		
Confirmation Number:	6891	
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND	
First Named Inventor/Applicant Name:	Kathy McEwen	
Customer Number:	20594	
Filer:	Ruben C. DeLeon	
Filer Authorized By:		
Attorney Docket Number:	683592-0004	
Receipt Date:	15-APR-2009	
Filing Date:	02-MAY-2007	
Time Stamp:	16:25:31	
Application Type:	Utility under 35 USC 111(a)	

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	McEwenPowerofAttorneysigne d.pdf	157577	no	3

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New International Application Filed with the USPTO as a Receiving Office

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Atty. Docket No.: 684534-1002

DECLARATION FOR PATENT APPLICATION, POWER OF ATTORNEY & DESIGNATION OF CORRESPONDENCE ADDRESS

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled:

IMPROVED SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND

cification of which (check one):	
attached hereto.	
as filed on	as U.S. or PCT Serial No.
nd was amended on	(if applicable). I understand that the filing date and/or
rial number may be unknown at the ti emplete this information on my behalf	me this document is executed and that the attorney of record may before filing.
I hereby state that I have reviewed at ms, as amended by any amendment re	nd understand the contents of the above-identified specification including eferred to above.
R §1.56, including for continuation-in	information that is material to patentability as defined in accordance with part applications, material information which became available between the national or PCT international filing date of the continuation-in-part
	attached hereto. as filed on

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

I hereby claim foreign priority benefits under 35 U.S.C. §119 or 365(b) of any foreign application(s) for patent or inventor's or plant breeder's rights certificate(s), 365(a) of any PCT International application which designed at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's or plant breeder's rights certificate(s), or any PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
Number Country		Day/Month/Year Filed	Yes	No
		·		-

Atty. Docket No.: 684534-1002

I hereby declare that all statements made herein on my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under 18 USC §1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full Name of First Invent	or: Kathy McEwen		. •
Inventor's Signature:	0.00.04	Date:	
Ka	thy VI Com	April 9, 2009	
Residence:	sidence: 7809 LaGuardia Drive, Plano, TX 75025		
Citizenship:	United States of Ameri	ca .	
Post Office Address:	ost Office Address: Same as above		
	·	,	
Full Name of Second Inve	ntor:		
Inventor's Signature:		Date:	
Residence:			
Citizenship:			
Post Office Address:			

Atty. Docket No.: 684534-1002

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) (35 U.S.C. § 119(e))

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date
60/796,660	5/2/2006

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. § 120

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or § 365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information to patentability as defined in 37 CFR §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

Application No.	Filing Date	Patented, Pending, Abandoned

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Facsimile:	(214) 459-3101	
Direct Telephone Calls to (name and telephone number): Ruben C. DeLeon at 214-459-3424		

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This was originally sent in on March 20, 2009. Please make sure Ruben C. DeLeon's contact information is updated for the above patent application number. Please contact me if you PAGE 1/2 * RCVD AT 4/9/2009 11:46:34 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-5/28 * DNIS:2738300 * CSID: * DURATION (mm-ss):00-54

Subject: Change of Address for Attorney of Record on Patent App 11/743,470

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Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Application Number	11/743,470
Filing Date	5/2/2007
First Named Inventor	Kathy McEven
Art Unit	2419
Examiner Name	Houshmand, H.
Attorney Docket Number	483592-1001

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囡	Attorney or agent of record. Registration Number 37,812					
Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number						
Signature						
Typed or Printed Name	Ruben C.	Deleon				
Date 3/20/2009 Telephone 214-459-3425						
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.						
Total of	forms are submitted.					

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Application	First Named Inventor	Kathy McEwen	
Address to: Commissioner for Patents P.O. Box 1450		Art Unit	2419
	ents	Examiner Name	Houshmand, H.
Alexandria, VA 22313-1450	1450	Attorney Docket Number	683592-1001

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forms/if more than one signature is required, see below.					
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
11/743,470	05/02/2007	Kathy McEwen	683592-0004	6891	
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			HOUSHMAND, HOOMAN		
DALLAS, 1A 73513-0088		ART UNIT	PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	11/743,470	MCEWEN, KATHY			
Office Action Summary	Examiner	Art Unit			
	Hooman Houshmand	2419			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address eriod for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on 11/04	/2008.				
3) Since this application is in condition for allowan		secution as to the merits is			
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims	·				
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	n from consideration				
5) Claim(s) is/are allowed.	m nem eenelderdhen.				
6)⊠ Claim(s) <u>1-21</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement				
oralin(s) are subject to restriction and/or	cicolori requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner					
10)☐ The drawing(s) filed on is/are: a)☐ acce	pted or b) \square objected to by the E	Examiner.			
Applicant may not request that any objection to the o	Irawing(s) be held in abeyance. See	9 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:	, , , , , , , , , , , , , , , , , , , ,				
1. Certified copies of the priority documents	have been received.				
2. Certified copies of the priority documents		on No.			
<u> </u>					
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.					
355 the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P				
Paper No(s)/Mail Date	6)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

L-326 (Rev. 08-06) Office Action Summary

Part of Paper No./Mail Date 20090103

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DETAILED ACTION

Response to Amendment

- 1. Claims 1-2, 10-11, 14, 17 have been amended. Claims 1-21 are pending.
- 2. The objections to the specification and the drawings have been withdrawn because of the amendments to the specification and the drawings.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 1-9, 10-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- 5. The new limitation (claim 1 lines 14-15; claim 10 lines 29-30 the last two lines of the claim) "at least a portion of the reserved resources is outside of the Internet and delivers video in real-time" was not described in the original disclosure.
- 6. The new limitations (claim 10 lines 6, 12-13, 22-30) "a video content identification number", (lines 12-13) "determining whether the requester is authentic or not allowed by having the network apply an authentication test on the requester before granting the

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requester access to the network", (lines 22-30) "determining whether the request will be approved or denied based on source address, destination address, codec type, content identification number, service type, requester profile information, network resources occupancy, link occupancy, server occupancy, wherein if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified quality from the source address to the destination address, until either the user or the network owner determines to terminate the connection in real-time, upon which real-time billing records may be generated recording available usage information or real- time intervention by a pre-paid billing solution and wherein at least a portion of the reserved resources is outside of the Internet and delivers video in real-time" were not described in the original disclosure.

- 7. Claims 1-9, 10-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.
- 8. The limitation (Claim 1 line 9, and claim 10 line 9) "high quality and low latency bandwidth" was not adequately described in the specification.
- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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10. Claims 1-9, 10-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 11. The new limitation (claim 1 lines 14-15; claim 10 lines 29-30 the last two lines of the claim) "at least a portion of the reserved resources is outside of the Internet and delivers video in real-time" is unclear.
- 12. The new limitations (claim 10 lines 6, 12-13, 22-30) "a video content identification number", (lines 12-13) "determining whether the requester is authentic or not allowed by having the network apply an authentication test on the requester before granting the requester access to the network", (lines 22-30) "determining whether the request will be approved or denied based on source address, destination address, codec type, content identification number, service type, requester profile information, network resources occupancy, link occupancy, server occupancy, wherein if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified quality from the source address to the destination address, until either the user or the network owner determines to terminate the connection in real-time, upon which real-time billing records may be generated recording available usage information or real-time intervention by a pre-paid billing solution and wherein at least a portion of the reserved resources is outside of the Internet and delivers video in real-time" are unclear.
- 13. The limitation (claim 10 second line from the end of the claim) "intervention by a pre-paid billing solution" is unclear. It is unclear what intervention refers to.

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Claim Rejections - 35 USC § 103

14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

15. Claims 1-2 (as best understood) are rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe (20050276218), in view of Khakzar (US 5781623), further in view of Cheng (US 20020150094), further in view of Rawlins (US 20020191539), and further in view of Higgins (US 5953350 A).

Claim 1. Ooghe teaches sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type ([0117] video V requires a bandwidth with a QoS for a period of time T. The service provider VOD requests the access resource controller ARC via the core network whether it can be granted those resources for the subscriber), the request includes a source address and a destination address ([0079] cross-reference table associating the identifier of an ATM virtual channel with the IP address of the subscriber to which that virtual channel relates); determining whether the request will be approved or denied ([0117] whether it can be granted those resources for the subscriber), admission ([0029] Connection Admission Control); and reserving resources for a transmission of information of the specified bandwidth, which is managed and monitored by the controller for the specified time from the source address to the destination address

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([0012] bandwidth and the QoS required for a connection are negotiated at connection establishment time. network reserves the appropriate resources for the connection, [0026] a static amount of bandwidth continuously available during the connection lifetime).

Ooghe teaches a control system ([0117] service provider requests the access resource controller), but does not explicitly teach the control system instructing a bearer platform.

In the same field of endeavor, Khakzar discloses *instructing a bearer platform* (4:40-45 switching network contains a matrix structure and its construction is similar to a cross-connect. this makes it possible to couple the bearer channels of the user port units with each other, or with a bearer channel of the interface unit. switching such connections through the switching network is controlled by the control unit). The combination of the teachings of Khakzar and Ooghe discloses *the control system instructing a bearer platform*.

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Khakzar with Ooghe to control an access network.

Ooghe does not explicitly teach managed by remote platform.

In the same field of endeavor, Cheng discloses managed by remote platform ([0008] multicast communications. audio/video conferencing, data distribution from surveillance platforms, command distribution from leaders/commanders, information

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sharing within peer group and between peer groups, real-time control of remote platforms and database/server replications for fault tolerance).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Cheng with Ooghe to control an access network.

Ooghe does not explicitly teach *point-to-point and point-to-multipoint* connections.

In the same field of endeavor, Rawlins discloses *point-to-point and point-to-multipoint connections* ([0025] QoS signaling protocol on the control plane of network devices that is utilized to request resources, requests resources for a unidirectional flow, operate with unicast and multicast routing protocols to ensure QoS, decides the downstream interface on policy and admission control for QoS).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Rawlins with Ooghe to control the network.

Ooghe does not explicitly teach a portion of the reserved resources is outside of the Internet and delivers video in real-time.

In the same field of endeavor, Higgins discloses (14:64- 15:12 Transferring the sheer quantities data associated with video across the Internet, is time consuming and renders the transmission of high quality, real-time video impossible. the user to employ the connectivity of the Internet to browse for remote video sources and, when a suitable remote source is located, open a point-to-point isochronous user information path of

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guaranteed bandwidth and characteristics between the user's controlling client and the

controlled client containing the video source for transmission of the video source to the

user in real time and outside the Internet) a portion of the reserved resources is outside

of the Internet and delivers video in real-time.

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Higgins with Ooghe to

guarantee bandwidth.

Claim 2. Ooghe further teaches at least one of the following: a service ([0016] quality of

service, [0017- 0026] differentiated service categories) type, a video code type or a

voice codec type and the codec type determines an amount of bandwidth required for

the user ([0026] video streaming or Voice over IP).

16. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, in

view of Khakzar, further in view of Cheng, further in view of Rawlins, further in view of

Higgins, and further in view of Gaddis (US 5457681).

Claim 3. Ooghe further teaches request is sent ([0117] service provider requests the

access resource controller via the core network whether it can be granted those

resources for the subscriber), but does not explicitly teach request is sent to a portal.

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In the same field of endeavor, Gaddis discloses *a portal* (11:63-12:35 portal filters incoming frames). The combination of the teachings of Gaddis with Ooghe discloses *request is sent to a portal*.

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Gaddis with Ooghe to permit transparent interconnection between network segments.

17. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, in view of Khakzar, further in view of Cheng, further in view of Rawlins, further in view of Higgins, further in view of Gaddis, and further in view of Justen (US 20060187831).

Claim 4. Ooghe teaches a controller ([0117] service provider requests the access resource controller), but does not explicitly teach *instructing the portal by a controller*.

In the same field of endeavor, Justen discloses *instructing the portal by a* controller ([0012], [0046- 0049] controller module executes portal software, FIG. 9, FIG. 10 portal controller module).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Justen with Ooghe to remotely monitor and control a target location.

18. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, in view of Khakzar, further in view of Cheng, further in view of Rawlins, further in view of

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Higgins, further in view of Gaddis, further in view of Justen, and further in view of Henry

(US 20040151153).

Claim 5. Ooghe does not explicitly teach a plurality of portals.

In the same field of endeavor, Henry teaches a plurality of portals ([0011] each

link comprises a plurality of portals).

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Henry with Ooghe to manage

resources of a link in a communication network.

19. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, in

view of Khakzar, further in view of Cheng, further in view of Rawlins, further in view of

Higgins, further in view of Gaddis, further in view of Justen, and further in view of

Litzenberger (US 5835497).

Claim 6. Ooghe further teaches plurality of I/O ports ([0076] plurality of physical

Input/Output ports), signaling ([0076] electrical signal of a subscriber line), session

([0079] subscriber session), routing ([0123] data packets are routed through the core

network), bandwidth ([0127] bandwidth required), quality ([0041] quality of service),

management ([0075] signaling planes and the management planes terminating at or

relayed across any of its physical ports, hardware components for those planes to

operate), admission ([0029] connection Admission Control).

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Ooghe does not explicitly teach billing function.

In the same field of endeavor, Litzenberger discloses *billing function* (1:55-60 back-office systems, billing platform, network management platform, fraud management platform).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Litzenberger with Ooghe to keep track of services provided to customers.

20. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, in view of Khakzar, further in view of Cheng, further in view of Rawlins, further in view of Higgins, further in view of Gaddis, and further in view of Justen.

Claim 7. Ooghe further teaches *I/O ports* ([0076] plurality of physical Input/Output ports).

Ooghe does not explicitly teach bearer connections, a switching matrix and a portal connectivity processing element.

In the same field of endeavor, Khakzar discloses *bearer connections, a switching matrix and a portal connectivity processing element* (4:40-45 switching network contains a matrix structure and its construction is similar to a cross-connect. this makes it possible to couple the bearer channels of the user port units with each other, or with a bearer channel of the interface unit. switching such connections through the switching network is controlled by the control unit).

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It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Khakzar with Ooghe to control

an access network.

21. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, in

view of Khakzar, further in view of Cheng, further in view of Rawlins, further in view of

Higgins, further in view of Gaddis, further in view of Justen, and further in view of

Goshen (US 20070002897).

Claim 8. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe does not explicitly teach interconnecting content service to the controller

and the portal.

In the same field of endeavor, Goshen discloses content service ([0009]

providing of content).

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Goshen with Ooghe to

manage bandwidth allocation.

In the same field of endeavor, Gaddis discloses a portal (11:63-12:35 portal

filters incoming frames).

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It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

The combination of teachings of Gaddis, Ooghe and Goshen discloses

interconnecting content service to the controller and the portal.

22. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, in

view of Khakzar, further in view of Cheng, further in view of Rawlins, further in view of

Higgins, further in view of Gaddis, further in view of Justen, and further in view of

Litzenberger.

Claim 9. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe does not explicitly teach interconnecting back-office provisioning, billing

and element management systems to the controller and portal.

In the same field of endeavor, Litzenberger discloses back-office provisioning,

billing and element management systems (1:55-60 back-office systems, billing platform,

network management platform, fraud management platform).

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Litzenberger with Ooghe to

keep track of services provided to customers.

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In the same field of endeavor, Gaddis discloses *a portal* (11:63-12:35 portal filters incoming frames).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

The combination of teachings of Gaddis, Litzenberger and Ooghe discloses interconnecting back-office provisioning, billing and element management systems to

the controller and portal.

23. Claims 10-13, 15 (as best understood) are rejected under 35 U.S.C. 103(a) as

being unpatentable over Ooghe, in view of Litzenberger, further in view of Khakzar,

further in view of Cheng, further in view of Rawlins (US 20020191539), further in view of

Pillai (US 20030133552), and further in view of Higgins.

Claim 10. Ooghe teaches sending a request for the user to a control system for a

quality of connection service for a specific time limit and either a specific bandwidth or a

codec type ([0117] video V requires a bandwidth with a QoS for a period of time T. The

service provider VOD requests the access resource controller ARC via the core network

whether it can be granted those resources for the subscriber), the request also includes

a source address and a destination address ([0079] cross-reference table associating

the identifier of an ATM virtual channel with the IP address of the subscriber to which

that virtual channel relates); admission ([0029] Connection Admission Control); and

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determining whether the request will be approved or denied ([0117] whether it can be granted those resources for the subscriber), if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified quality from the source address to the destination address ([0012] The connection-oriented mode of operation allows the network to check whether enough resources are available for a connection and then to commit some Quality of Service for that connection. bandwidth and the QoS required for a connection are negotiated at connection establishment time. network can reserve therefrom the appropriate resources for this connection).

Ooghe does not explicitly teach *generating billing records*.

In the same field of endeavor, Litzenberger discloses *generating billing records* (1:55-60 back-office systems, billing platform, network management platform, fraud management platform).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Litzenberger with Ooghe to keep track of services provided to customers.

Ooghe teaches a control system ([0117] service provider requests the access resource controller), but does not explicitly teach the control system instructing a bearer platform.

In the same field of endeavor, Khakzar discloses *instructing a bearer platform*(4:40-45 switching network contains a matrix structure and its construction is similar to a cross-connect. this makes it possible to couple the bearer channels of the user port

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units with each other, or with a bearer channel of the interface unit. switching such connections through the switching network is controlled by the control unit). The combination of the teachings of Khakzar and Ooghe discloses *the control system instructing a bearer platform*.

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Khakzar with Ooghe to control an access network.

Ooghe does not explicitly teach managed by remote platform.

In the same field of endeavor, Cheng discloses *managed by remote platform* ([0008] multicast communications. audio/video conferencing, data distribution from surveillance platforms, command distribution from leaders/commanders, information sharing within peer group and between peer groups, real-time control of remote platforms and database/server replications for fault tolerance).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Cheng with Ooghe to control an access network.

Ooghe does not explicitly teach *point-to-point and point-to-multipoint* connections.

In the same field of endeavor, Rawlins discloses *point-to-point and point-to-multipoint connections* ([0025] QoS signaling protocol on the control plane of network devices that is utilized to request resources, requests resources for a unidirectional flow,

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operate with unicast and multicast routing protocols to ensure QoS, decides the downstream interface on policy and admission control for QoS).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Rawlins with Ooghe to control the network.

Ooghe does not explicitly teach *network terminates the connection in real-time,* real-time intervention by a pre-paid billing solution.

In the same field of endeavor, Pillai discloses network terminates the connection in real-time, real-time intervention by a pre-paid billing solution ([0023] In prepaid services the customer pays in advances for a designated quantum of resources. network elements coordinate with different provisioning and user support systems to dynamically monitor resource consumption in real-time; once the designated levels of resource use are exceeded, the network elements terminate ongoing connections. the network elements and databases are configured with the latest data on the residual resources, remaining voice call minutes or remaining MB of data packet available to each user).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Pillai with Ooghe to control the network.

Ooghe does not explicitly teach a portion of the reserved resources is outside of the Internet and delivers video in real-time.

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In the same field of endeavor, Higgins discloses (14:64- 15:12 Transferring the sheer quantities data associated with video across the Internet, is time consuming and renders the transmission of high quality, real-time video impossible. the user to employ the connectivity of the Internet to browse for remote video sources and, when a suitable remote source is located, open a point-to-point isochronous user information path of guaranteed bandwidth and characteristics between the user's controlling client and the controlled client containing the video source for transmission of the video source to the user in real time and outside the Internet) a portion of the reserved resources is outside of the Internet and delivers video in real-time.

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Higgins with Ooghe to guarantee bandwidth.

Claim 11. Ooghe further teaches at least one of the following: a service ([0016] quality of service, [0017-0026] differentiated service categories) type, a video code type and a voice codec type and the codec type determines an amount of bandwidth required for the user ([0026] video streaming or Voice over IP).

Claim 12. Ooghe further teaches *plurality of I/O ports* ([0076] plurality of physical Input/Output ports), *signaling* ([0076] electrical signal of a subscriber line), *session* ([0079] subscriber session), *routing* ([0123] data packets are routed through the core network), *bandwidth* ([0127] bandwidth required), *quality* ([0041] quality of service),

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management ([0075] signaling planes and the management planes terminating at or

relayed across any of its physical ports, hardware components for those planes to

operate), admission ([0029] connection Admission Control).

Claim 13. Ooghe further teaches I/O ports ([0076] plurality of physical Input/Output

ports).

Ooghe does not explicitly teach bearer connections, a switching matrix and a

portal connectivity processing element.

In the same field of endeavor, Khakzar discloses bearer connections, a switching

matrix and a portal connectivity processing element (4:40-45 switching network contains

a matrix structure and its construction is similar to a cross-connect. this makes it

possible to couple the bearer channels of the user port units with each other, or with a

bearer channel of the interface unit. switching such connections through the switching

network is controlled by the control unit).

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Khakzar with Ooghe to control

an access network.

Claim 15. Ooghe teaches a control system ([0117] service provider requests the access

resource controller).

Ooghe does not explicitly teach interconnecting back-office provisioning, billing

and element management systems to the control system and the bearer platform.

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In the same field of endeavor, Litzenberger discloses *back-office provisioning*, *billing and element management systems* (1:55-60 back-office systems, billing platform, network management platform, fraud management platform).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Litzenberger with Ooghe to keep track of services provided to customers.

In the same field of endeavor, Khakzar discloses a bearer platform (4:40-45 switching network contains a matrix structure and its construction is similar to a cross-connect. this makes it possible to couple the bearer channels of the user port units with each other, or with a bearer channel of the interface unit. switching such connections through the switching network is controlled by the control unit).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Khakzar with Ooghe to control an access network.

The combination of the teachings of Khakzar, Litzenberger and Ooghe discloses interconnecting back-office provisioning, billing and element management systems to the control system and the bearer platform.

24. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, in view of Litzenberger, further in view of Khakzar, further in view of Cheng, further in view of Rawlins, further in view of Pillai, further in view of Higgins, further in view of Goshen, and further in view of Gaddis.

Art Unit: 2419

Claim 14. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe does not explicitly teach interconnecting content service to the controller

and a portal.

In the same field of endeavor, Goshen discloses content service ([0009]

providing of content)

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Goshen with Ooghe to

managing bandwidth allocation.

In the same field of endeavor, Gaddis discloses a portal (11:63-12:35 portal

filters incoming frames).

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

The combination of teachings of Gaddis, Ooghe and Goshen discloses

interconnecting content service to the controller and the portal.

25. Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Ooghe, in view of Gaddis.

Art Unit: 2419

Claim 16. Ooghe teaches sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type ([0117] video V requires a bandwidth with a QoS for a period of time T. service provider VOD requests the access resource controller ARC via the core network whether it can be granted those resources for the subscriber), the request also includes a source address and a destination address ([0079] cross-reference table associating the identifier of an ATM virtual channel with the IP address of the subscriber to which that virtual channel relates), and determining whether the request will be approved or denied ([0117] whether it can be granted those resources for the subscriber), if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified time from the source address to the destination address ([0012] The connection-oriented mode of operation allows the network to check whether enough resources are available for a connection and then to commit some Quality of Service for that connection. bandwidth and the QoS required for a connection are negotiated at connection establishment time, network can reserve therefrom the appropriate resources for this connection).

Ooghe teaches a control system ([0117] service provider VOD requests the access resource controller ARC via the core network), but does not explicitly teach the control system includes a portal.

In the same field of endeavor, Gaddis discloses *a portal* (11:63-12:35 portal filters incoming frames). The combination of the teachings of Gaddis and Ooghe discloses *the control system includes a portal*.

Art Unit: 2419

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

Claim 17. Ooghe further teaches at least one of the following: a service ([0016] quality

of service, [0017-0026] differentiated service categories) type, a video code type or a

voice codec type and the codec type determines an amount of bandwidth required for

the user ([0026] video streaming or Voice over IP).

Claim 18. Ooghe further teaches plurality of I/O ports ([0076] plurality of physical

Input/Output ports), signaling ([0076] electrical signal of a subscriber line), session

([0079] subscriber session), routing ([0123] data packets are routed through the core

network), bandwidth ([0127] bandwidth required), quality ([0041] quality of service),

management ([0075] signaling planes and the management planes terminating at or

relayed across any of its physical ports, hardware components for those planes to

operate), admission ([0029] Connection Admission Control).

26. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

in view of Gaddis, and further in view of Khakzar.

Claim 19. Ooghe further teaches I/O ports ([0076] plurality of physical Input/Output

ports).

Art Unit: 2419

Ooghe does not explicitly teach bearer connections, a switching matrix and a

portal connectivity processing element.

In the same field of endeavor, Khakzar discloses bearer connections, a switching

matrix and a portal connectivity processing element (4:40-45 switching network contains

a matrix structure and its construction is similar to a cross-connect. this makes it

possible to couple the bearer channels of the user port units with each other, or with a

bearer channel of the interface unit. switching such connections through the switching

network is controlled by the control unit).

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Khakzar with Ooghe to control

an access network.

27. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

in view of Gaddis, and further in view of Goshen.

Claim 20. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe does not explicitly teach interconnecting content service to the controller

and the portal.

In the same field of endeavor, Goshen discloses content service ([0009]

providing of content)

Art Unit: 2419

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Goshen with Ooghe to

managing bandwidth allocation.

In the same field of endeavor, Gaddis discloses a portal (11:63-12:35 portal

filters incoming frames).

It would have been obvious to a person having ordinary skill in the art, at the time

that the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

The combination of teachings of Gaddis, Ooghe and Goshen discloses

interconnecting content service to the controller and the portal.

28. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

in view of Gaddis, and further in view of Litzenberger.

Claim 21. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe does not explicitly teach interconnecting back-office provisioning, billing

and element management systems to the controller and portal.

In the same field of endeavor, Litzenberger discloses back-office provisioning,

billing and element management systems (1:55-60 back-office systems, billing platform,

network management platform, fraud management platform).

Art Unit: 2419

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Litzenberger with Ooghe to keep track of services provided to customers.

In the same field of endeavor, Gaddis discloses *a portal* (11:63-12:35 portal filters incoming frames).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Gaddis with Ooghe to permit transparent interconnection between network segments.

The combination of teachings of Gaddis, Litzenberger and Ooghe discloses interconnecting back-office provisioning, billing and element management systems to the controller and portal.

Response to Arguments

29. Applicant's arguments with respect to amended claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

30. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2419

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hooman Houshmand whose telephone number is (571)270-1817. The examiner can normally be reached on Monday - Friday 8am - 5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571)272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2419

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. H./ Examiner, Art Unit 2419

/Hassan Kizou/ Supervisory Patent Examiner, Art Unit 2419

Application/Control No. Applicant(s)/Patent Under Reexamination 11/743,470 MCEWEN, KATHY Notice of References Cited Examiner Art Unit Page 1 of 1 2419 Hooman Houshmand **U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-5,953,350 A	09-1999	Higgins, Ronald D.	370/524
*	В	US-2001/0056578 A1	12-2001	Hwang et al.	725/98
	O	US-			
	D	US-			
	Е	US-			
	F	US-			
	G	US-			
	I	US-			
	_	US-			
	J	US-			
	K	US-			
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Ν					
	0					
	Р					
	Q					
	R					
	S					
	Т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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"A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20090103

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Index of Claims	11743470	MCEWEN, KATHY
	Examiner	Art Unit
	Hooman Houshmand	2419

✓	Rejected	_	Cancelled	N	Non-Elected	Α	Appeal
=	Allowed	÷	Restricted	I	Interference	0	Objected
	Claims renumbered in t	he same o	rder as presented by ap	plicant	□ СРА	□ т.ш	D.
	CLAIM				DATE		

Claims	Claims renumbered in the same order as presented by applicant						☐ CPA ☐ T.D. ☐ R.1.47						
CLAIM						DATE							
Final	Original	07/16/2008	01/09/2009										
	1	✓	✓										
	2	✓	✓										
	3	√	✓										
	4	√	✓										
	5	✓	✓										
	6	✓	✓										
	7	✓	✓										
	8	✓	✓										
	9	✓	✓										
	10	✓	✓										
	11	✓	✓										
	12	✓	✓										
	13	✓	✓										
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	18	✓	✓										
	19	✓	✓										
	20	✓	✓										
	21	✓	√										

U.S. Patent and Trademark Office Part of Paper No.: 20090103

Search Notes

Application/Control No.	Applicant(s)/Patent Under Reexamination
11743470	MCEWEN, KATHY
Examiner	Art Unit
Hooman Houshmand	2419

	SEARCHED		
Class	Subclass	Date	Examiner
370	229,395.21 (text search only)	1/4/2009	HH

SEARCH NOTES		
Search Notes	Date	Examiner
EAST, NPL	1/4/2009	HH
Inventorship search completed in eDAN	1/4/2009	HH

	INTERFERENCE SEAR	СН	
Class	Subclass	Date	Examiner

U.S. Patent and Trademark Office Part of Paper No.: 20090103

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2817	(370/229,395.21).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/01/11 19:14
L2	2491	control\$3 remote platform	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:17
L3	2	21	US-PGPUB; USPAT	AND	ON	2009/01/11 19:18
L4	395	bandwidth\$on\$demand	US-PGPUB; USPAT	OR	ON	2009/01/11 19:19
L5	13	4 1	US-PGPUB; USPAT	AND	ON	2009/01/11 19:20
L6	.6 116231 source AND address AND destination		US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/11 19:22
L7	395	bandwidth\$on\$demand	US-PGPUB; USPAT	OR	ON	2009/01/11 19:22
L8	32453	codec	US-PGPUB; USPAT	SAME	ON	2009/01/11 19:22
L9	8	L7 L8 L6	US-PGPUB; USPAT	AND	ON	2009/01/11 19:22
L10	201	request (quality OR QoS) (time OR duration) (bandwidth OR codec)	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:23
L11	81	source address destination address portal	US-PGPUB; USPAT	SAME	ON	2009/01/11 19:23
L12	1	L10 L11	US-PGPUB; USPAT	SAME	ON	2009/01/11 19:23
L14	4	(subscriber data function) AND (session management function) AND (routing bandwidth admission) AND (quality QoS)	US-PGPUB; USPAT	SAME	ON	2009/01/11 19:26
L15	35	port bearer (connection OR connectivity) switching matrix	US-PGPUB; USPAT	SAME	ON	2009/01/11 19:26
L16	69	content service controller portal	US-PGPUB; USPAT	SAME	ON	2009/01/11 19:26
L17	31	back\$office bill\$3 manage \$4	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:27
L18	2491	control\$3 remote platform	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:28

L19	118	L18 and "370".clas.	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:28
L20	3	control\$3 remote platform admission	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:29
L21	74	(point\$to\$point OR unicast) (point\$to \$multipoint OR multicast) admission	US-PGPUB; USPAT	SAME	ON	2009/01/11 19:30
L22	3	user network terminate connection real\$time pre \$paid	US-PGPUB; USPAT	SAME	ON	2009/01/11 19:30
L23	787	"portals" controller	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:31
L24	84	L23 and "370".clas.	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:31
L25	332	plurality portals	US-PGPUB; USPAT	NEAR	OFF	2009/01/11 19:31
L26	19	L25 and "370".clas.	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:31
L27	8	(outside WITH Internet) (video WITH real\$time)	US-PGPUB; USPAT	SAME	ON	2009/01/11 19:32
L28	2	(outside WITH Internet) (video WITH real\$time)	US-PGPUB; USPAT	WITH	ON	2009/01/11 19:32
L29	1	((KATHY) near2 (MCEWEN)).INV.	US-PGPUB; USPAT	OR	ON	2009/01/11 19:33

1/11/2009 7:34:12 PM

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Electronic Acknowledgement Receipt				
EFS ID:	4230318			
Application Number:	11743470			
International Application Number:				
Confirmation Number:	6891			
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND			
First Named Inventor/Applicant Name:	Kathy McEwen			
Customer Number:	20594			
Filer:	Michael A. O Neil/Marsha Green			
Filer Authorized By:	Michael A. O Neil			
Attorney Docket Number:	683592-0004			
Receipt Date:	04-NOV-2008			
Filing Date:	02-MAY-2007			
Time Stamp:	16:00:36			
Application Type:	Utility under 35 USC 111(a)			

Payment information:

Submitted wi	th Payment	no	no							
File Listin	File Listing:									
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)					
1	Applicant Arguments/Remarks Made in an Amendment	683592-1001 Response 110408	1500451	no	12					
		pdf	7f94bb51e9ad327f3afe0bfd93dd8640b6c3 2170							

Warnings:

Information:

2	Drawings-only black and white line	683592-1001REVISEDDRAWING	953412	no	4		
	drawings	S110408.pdf	55293f7106a7e1869d6efd5b3b0851bb2a1 7c97c		7		
Warnings:							
Information:							
Total Files Size (in bytes)			2453863				

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

ATTORNEY DOCKET NO 683592-1001

PATENT U.S. Ser. No. 11/743,470

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Kathy McEwen

Serial No.:

11/743,470

Filed:

May 5, 2007

Title: SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND

Confirm No.: 6891

Art Unit:

2619

Examiner:

Hooman Houshand

Commissioner for Patents Alexandria, VA 22313-1450

Dear Sirs:

AMENDMENT AND RESPONSE TO OFFICE ACTION

In response to the Official Action mailed August 5, 2008, Applicant respectfully requests that the Examiner reconsider the rejection of the specification, drawings, and claims in view of the following amendments thereto, and the comments set forth below.

Amendments to the Specification begin on Page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims, which begin on Page 6 of this paper.

Amendments to the Drawings begin on Page 9 of this paper and original sheets are attached to this response following Page 12.

Remarks/Arguments begin on Page 10 of this paper.

ATTORNEY DOCKET NO 683592-1001

PATENT U.S. Ser. No. 11/743,470

Amendments to the Specification

All amendments are shown with deleted text struckthrough or double bracketed and new

text underlined.

Please replace paragraph [0034] with the following:

[0034] Instead of trying to introduce a new class of service type for each additional high quality

service and content provider at the access edge (See Figure 6), one class of service type is

introduced to cover all high quality services (See Figure 7). Then all traffic requesting this

service type is routed to an access Controller [714] 712 and [716] Portal 714 for handling.

Alternatively, if the broadband access provider does not want to provision a specific class of

service for the Controller and Portal for handling, a consumer may signal directly to the

Controller and Portal.

Please replace paragraph [0035] with the following:

[0035] Now referring to Figure 8, when one dynamic video or bandwidth user wants to connect

to another, they simply dial a directory number or IP address or web page to request a connection

on demand. The Controller [700] 800 will receive the request, including bandwidth required and

if video, a video codec type and a service type tag (if applicable) for billing purposes, and

determine from its embedded subscriber database whether the user is authorized to use the

bandwidth, video type and service or not, how to bill them, and whether the destination party can

be reached.

Please replace paragraph [0036] with the following:

[0036] The Controller [700] 800 and Portal [702] 802 are interconnected to each other and to

content providers The Controller [700] 800 and Portal [702] 802 also interconnect consumers,

businesses and/or content providers. The control signaling connects using protocols directly to

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PATENT U.S. Ser. No. 11/743,470

consumers, businesses, and/or content providers. The bearer between consumers, businesses,

and/or content providers is connected through the Portal platforms [702] 802.

Please replace paragraph [0037] with the following:

[0037] In order to ensure quality, the Controller [700] 800 inter-works with network protocols to

dynamically provision a dedicated path, including required route and bandwidth, on demand

through the network. The Controller [700] 800 directs its associated Portal platform [702] 802 to

allocate local port resources, and then signals any destination party's Controller to reserve far-end

resources.

Please replace paragraph [0038] with the following:

[0038] The Controller [700] 800 enables each bandwidth on demand user, originator and

terminator, to negotiate with the network. The negotiation includes information elements

necessary to ensure an end-to-end video connection free from video codec conversion in the core

if possible. This avoids interoperability issues between user systems, and enables all application

end-points to communicate freely.

Please replace paragraph [0039] with the following:

[0039] Now referring to Figure 9, the Controller [700] 900 and Portals [702] 1102 can be

physically located in the same location or in separate locations. The Controller [700] 900

communicates and controls the portals [702] 1102 via a link - the distance from the Controller

[700] 900 to the Portals [702] 1102 can he close or very far. This allows network owners to

optimize transmission utilization to keep high bandwidth traffic closest to the user, while

centralizing routing, maintenance, operations and control functions in a single regional location.

Please replace paragraph [0040] with the following:

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PATENT U.S. Ser. No. 11/743,470

[0040] The invention takes distributed switching control concepts from the low-bandwidth voice domain, and extends them to the variable-bandwidth packet routing domain. Moreover, the Portal [702] 902 is under the direct management of the Controller [700] 900. It only accepts traffic on its ports when authorized by the Controller [700] 900 in real-time, and notifies the Controller [700] 900 if a user's traffic terminates or exceeds allowance. The Portal [702] 902 does not perform new routing on any packet, and only acts on the information provided by the controller [700] 900. If any packets are received on any port at the Portal [702] 902, which are arriving from a user that has not been authorized to use it, then those packets are discarded without prejudice. If an authorized user should exceed the limit authorized, the Controller [700] 900 is informed, and an alarm is raised. The Controller [700] 900 determines whether the user who is exceeding their limit should be disconnected, or allowed to continue, and instructs the Portal [702] 902 according to a pre-set time limit The Controller [700] 900 contains a completely integrated bandwidth/portal admission control, routing and element management solution, which tracks, manages, and bills for all usage (Controller [700] 900 plus its subordinate Portals [702] 902) Furthermore, the maximum limit of Portals [702] 902 to Controller [700] 900 is detemlined based on the aggregate subscriber usage capacity across all Portals [700] 902.

Please replace paragraph [0041] with the following:

[0041] Now referring to Figure 10, the Controller [700] 1000 and Portals [702] 1002 serve the access networks at the access locations, which are near consumers, businesses, and/or near to content providers. The Controller [700] 1000 and Portal [702] 1002 interconnect to each other and any other platforms, which could be via existing IP/MPLS routers or multiplexing equipment or other transport connection mechanisms. The consumers 1004, 1006 are connected directly to the Controller [700] 1000 and Portal [702] 1002 across the access. Content providers, back-office provisioning, billing and element management systems interconnect to the Controller [700] 1000 and Pollals [702] 1002. The best-effort internet is bypassed completely for any high quality broadband connections. In addition, all provisioning, element management and routing is managed at the Controller [700] 1000, and is visible via a remote connection. Furthermore, the Controller supports flexible charging arrangements that can be based on any combination of or

ATTORNEY DOCKET NO 683592-1001

PATENT U.S. Ser. No. 11/743,470

single element of service type, time elapsed, codec type and bandwidth used on the network; and this can be billed for either after the session has terminated, or in real-time through a pre-paid billing mechanism which allows for termination of the session at any time based on available credit(s) Originating and terminating party records are issued, or both, including information about route used for transport charging purposes. If users are connecting across regions, states, nations or carriers, the information is recorded for billing purposes.

Please replace paragraph [0042] with the following:

[0042] Now referring to figure 11, a Controller [700] 1100 and Portal [702] 1102 serve the access networks at the access locations 1104. The Controller [700] 1100 and Portal [702] 1102 interconnect to each other and any other platforms 1106, which could be via existing IP/MPLS routers 1108 and/or multiplexing equipment and/or any other transport mechanisms In addition, the consumers 1110, businesses 1112 and or content providers 1114 are connected, for control signaling via path 1116 and via path 1118 for bearer path, directly to the Controller [700] 1100 and Portal [702] 1102 across the access domain. The Controller [700] 1100 includes I/O ports 1120, 1122, and 1124 connecting a signaling/security function 1126 to a message distribution function 1128 that handles distributing all control signaling to the subscriber data function 1130, session management function 1132, routing/bandwidth admission and quality assurance management function 1134, and handles all functions including billing/OA&M 1136, necessary for the broadband services to be dynamically connected and managed with quality. The Portal [702] 1102 includes I/O ports 1138 on line cards 1140 for the bearer connections, a switching matrix 1142 and a portal connectivity processing element 1144. The content services 1114 interconnects to the Controller [700] 1100 and Portal [702] 1102. The backotlice provisioning, billing and element management systems 1132 interconnect to the Controller [700] 1100 and Portal [702] 1102. The best-effort Internet 1146 is bypassed completely for any high quality broadband connections.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

All claims currently being amended are shown with deleted text struckthrough or double bracketed and new text underlined. Additionally, the status of each claim is indicated in parenthetical expression following the claim number.

Claims 1 - 21 remain in this application.

Claims 1, 2, 10, 11, 14 and 17 are being amended.

1. (Amended) A method of providing bandwidth on demand to an end user, the method comprising:

sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type, wherein the request also includes a source address and a destination address; and

determining whether the request will be approved or denied, wherein if the request is approved, instructing a bearer platform, by the control system, in setting up dynamic bandwidth connections, wherein the bearer platform responds to controller designated bearer port and route selection decisions to deliver high quality and low latency bandwidth connections point-to-point and point-to-multipoint and wherein the bearer port is tightly controlled by a remote platform such that all ingress and agrees egress traffic bandwidth admission is managed by the remote platform; and reserving resources for a transmission of information of the specified bandwidth, which is managed and monitored by the controller for the specified time from the source address to the destination address and wherein at least a portion of the reserved resources is outside of the Internet and delivers video in real-time.

- 2. (Amended) The method of claim 1 wherein the request also includes at least one of the following a service type, a bandwidth amount, a video [code] codec type [and] or a voice codec type and wherein the video codec type, the voice codec type and bandwidth amount determine determine an amount of bandwidth required for the user.
- 3. The method of claim 1 wherein the request is sent to a portal.
- 4. The method of claim 3 further including instructing the portal by a controller.
- 5. The method of claim 4 further including a plurality of portals.

- The method of claim 4 further including connecting a plurality of I/O ports to a signaling/security function to a message distribution function that handles distributing all control signaling to a subscriber data function, a session management function, billing function and a routing/bandwidth admission and quality assurance management function.
- 7. The method of claim 4 wherein the portal includes I/O ports on line cards for the bearer connections, a switching matrix and a portal connectivity processing element.
- 8. The method of claim 4 further including interconnecting a content services device to the controller and the portal.
- 9. The method of claim 4 further including interconnecting back-office provisioning, billing and element management systems to the controller and portal.
- 10. (Amended) A method of providing bandwidth on demand to an end user, the method comprising

sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type, to be determined by the user upon termination, wherein the request also includes a source address, [[and]] a destination address and a video content identification number;

instructing a bearer platform, by the control system, in setting up dynamic bandwidth connections, wherein the bearer platform makes a bearer port and route selection decisions to deliver high quality and low latency bandwidth connections point-to-point and point-to-multipoint and wherein the bearer port is tightly controlled by a remote platform such that all ingress and agrees egress traffic bandwidth admission is managed by the remote platform;

determining whether the requester is authentic or not allowed by having the network apply an authentication test on the requester before granting the requester access to the network; and

determining whether the request will be approved or denied, wherein if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified quality from the source address to the destination address, until either the user or the network owner determines to terminate the connection in real-time, upon which real-time billing records may be generated recording available usage information or real-time intervention by a pre-paid billing solution.

determining whether the request will be approved or denied based on source address, destination address, codec type, content identification number, service type, requester profile information, network resources occupancy, link occupancy, server occupancy, wherein if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified quality from the source address to the destination address, until either the user or the network owner determines to terminate the connection in real-time, upon which real-time billing records may be generated recording available usage information or real-time intervention by a pre-paid billing solution and wherein at least a portion of the reserved resources is outside of the Internet and delivers video in real-time.

- 11. (Amended) The method of claim 10 wherein the request also includes at least one of the following a service type, a bandwidth amount, a video code type [and] or a voice codec type and wherein the codec type and the bandwidth amount determine[s] an amount of bandwidth required for the user
- 12. The method of claim 10 wherein the control system includes a plurality of I/O ports connected to a signaling/security function to a message distribution function that handles distributing all control signaling to a subscriber data function, a session management function and a routing/bandwidth admission and quality assurance management function.
- 13. The method of claim 10 wherein the bearer platform includes I/O ports on line cards for the bearer connections, a switching matrix and a portal connectivity processing element
- 14. (Amended) The method of claim 10 further including interconnecting a content services device to the controller and [the] a portal.
- 15. The method of claim 10 further including interconnecting back-office provisioning, billing and element management systems to the control system and the bearer platform.
- 16. A method of providing bandwidth on demand to an end user, the method comprising sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type, wherein the request also includes a source address and a destination address, wherein the control system includes a controller and a portal; and determining whether the request will be approved or denied, wherein if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified time from the source address to the destination address.
- 17. (Amended) The method of claim 16 wherein the request also includes at least one of the following a service type, a bandwidth amount, a video codec type [and] or a voice codec type and wherein the codec type and the bandwidth amount determine[s] an amount of bandwidth required for the user.
- 18. The method of claim 16 further including connecting a plurality of I/O ports to a signaling/security function to a message distribution function that handles distributing all control signaling to a subscriber data function, a session management function and a routing/bandwidth admission and quality assurance management function.
- 19. The method of claim 16 wherein the portal includes I/O ports on line cards for the bearer connections, a switching matrix and a portal connectivity processing element.
- 20. The method of claim 16 further including interconnecting a content services device to the controller and the portal.
- 21. The method of claim 16 further including interconnecting back-office provisioning, billing and element management systems to the controller and portal.

ATTORNEY DOCKET NO 683592-1001

PATENT U.S. Ser. No. 11/743,470

Amendments to the Drawings

Please amend attached figures 8-11.

Remarks/Arguments

In response to the Office Action mailed August 5, 2008, Applicants respectfully request that the Examiner reconsider the objections to the specification and drawings and the rejections of the remaining claims.

Claims 1-21 are pending. Claim 1, 2, 10, 11, 14 and 17 have been amended.

The Examiner objected to the drawings. Applicant respectfully submits that the drawings have now been corrected are enclosed.

The Examiner objected to the specification. Applicant has amended the specification to clarify and more accurately describe the invention.

The Examiner objected to the claims because Applicant included wherein clauses. Applicant respectfully traverses the Examiner's objections. Applicant respectfully submits that each wherein clause further limits the claim and is therefore compliant with MPEP 2111.04.

Claims 1-15 stand rejected under 35 U.S.C. § 112, second paragraph as being indefinite. Specifically, Applicant has amended claims 1, 2, 10, 11 and 14 and respectfully submits that claims 1-15 are now compliant with 35 U.S.C. § 112, second paragraph. However, to the extent that the amendments do not address the Examiner's objections, Applicant respectfully submits that the meaning of the claims would be understood by a person skilled in the art.

Claims 1-15 stand rejected under 35 U.S.C. § 112, first paragraph as the specification does not enable a person skilled in the art to use the invention within the scope of these claims. Again, Applicant has amended claims 1 and 10 and respectfully submits that claims 1-15 are now compliant with 35 U.S.C. § 112, first paragraph.

Claims 1-2 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Ooghe (20050276218) in view of Khakzar (US 5,781,623), Cheng (US 20020150094) and Rawlins (US 200201919539). Applicants respectfully traverse these rejections.

Claim 1 recites: "A method of providing bandwidth on demand to an end user, the method comprising: sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type, wherein the request also includes a source address and a destination address; and determining whether the

request will be approved or denied, wherein if the request is approved, instructing a bearer platform, by the control system, in setting up dynamic bandwidth connections, wherein the bearer platform responds to controller designated bearer port and route selection decisions to deliver high quality and low latency bandwidth connections point-to-point and point-to-multipoint and wherein the bearer port is controlled by a remote platform such that all ingress and egress traffic bandwidth admission is managed by the remote platform; and reserving resources for a transmission of information of the specified bandwidth, which is managed and monitored by the controller for the specified time from the source address to the destination address and wherein at least a portion of the reserved resources is outside of the Internet and delivers video in real-time."

To establish a prima facie case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. MPEP 2143.

The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art, not in applicant's disclosure. In re Vaeck, 947 F.2d 488, 20 U.S.P.Q.2d 1438 (Fed. Cir. 1991). MPEP 2143.

Applicant respectfully submits that there is no suggestion or motivation to modify or combine the references cited by the Examiner to achieve the advantageous results of the invention as recited in claim 1. Ooghe, Khakzar, Cheng and Rawlins, separately and in combination, fail to teach or suggest reserving resources outside of the Internet to deliver video in real-time as recited in independent claim 1. In addition, the cited art does not teach or suggest authentication for video services as recited by claim 1. Consequently, applicant respectfully submits that a prima facie case of obviousness has not been established.

For at least the reasons above, applicant respectfully submits that the rejection of claim 1 under 35 U.S.C. § 103(a) has been overcome and requests that the rejection of claim 1 be withdrawn. Further, since claim 2 is dependent claims of claim 1, claim 2 is also patentable over the cited art for at least the same reasons.

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Claims 3-21 are also rejected under 35 U.S.C. § 103(a) as being unpatentable over Ooghe in view of other cited art. Applicants respectfully traverse these rejections.

As stated before, Ooghe and the other cited art does not teach or suggest reserving resources outside of the Internet to deliver video in real-time as recited in independent claim 1. In addition, Ooghe and the other cited art does not teach or suggest reserving resources outside of the Internet to deliver video in real-time as recited in independent claim 10. Moreover, Ooghe and the cited art does not teach or suggest authentication for video services as recited by independent claims 1 and 10. Therefore claims 1 and 10 are patentable over the cited art.

Further, since claims 3-9 are dependent on claim 1, claims 3-9 are not taught or suggested by the cited art for at least the same reasons as claim 1. In addition, since claims 11-21 are dependent on claim 10, claims 11-21 are also patentable over the cited art for at least the same reasons as claim 10.

No new matter has been added. Applicants respectfully submit that the Claims as they now stand are patentably distinct over the art cited during the prosecution thereof.

With the addition of no new claims, no additional filing fees are due. However, the Director is hereby authorized to charge any fees or credit any overpayment to Deposit Account Number 50-0856 of Michael A. O'Neil, PC.

If the Examiner has any questions or comments concerning this paper or the present application in general, the Examiner is invited to call the undersigned at 214-739-0088, ext. 8.

Respectfully submitted,

Date: 11/04/2008

/Ruben C. DeLeon/

Ruben C. DeLeon Reg. No. 37,812

LAW OFFICE OF MICHAEL A. ONEIL, PC

5949 Sherry Lane, Suite 820

Dallas, TX 75225

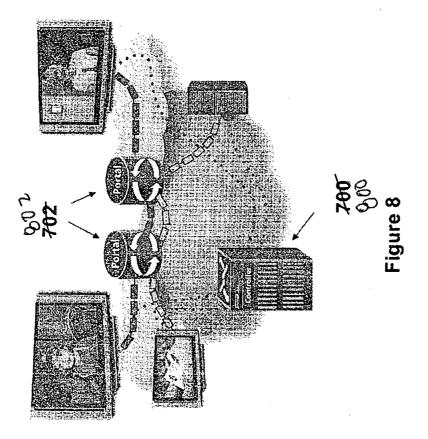
Telephone:

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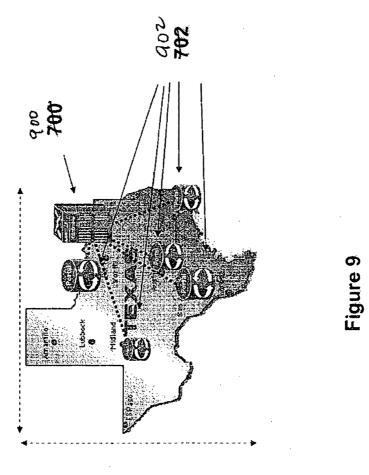
Facsimile:

(214) 739-8284

12



/est -#5910435v1



Vest -#5910435v1

West -#5910435v1

Figure 11

Wast #5010435v

PTO/SB/06 (07-06)

Approved for use through 1/31/2007. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE to a collection of information unless it displays a valid OMB control number Under the Panemork Reduction Act of 1995, no persons are required to respond

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					P	Application or Docket Number 11/743,470		Filing Date 05/02/2007		To be Mailed	
APPLICATION AS FILED – PART I (Column 1) (Column 2)							SMALL ENTITY 🛛		OTHER THAN OR SMALL ENTITY		
FOR			JMBER FIL		MBER EXTRA		RATE (\$)	FEE (\$)		RATE (\$)	FEE (\$)
	BASIC FEE (37 CFR 1.16(a), (b),	or (c))	N/A		N/A		N/A	1.7		N/A	,.,
	SEARCH FEE (37 CFR 1.16(k), (i),		N/A		N/A	1	N/A		1	N/A	
	EXAMINATION FE (37 CFR 1.16(o), (p),	ΞE	N/A		N/A		N/A		1	N/A	
	TAL CLAIMS CFR 1.16(i))		minus 20 = *			1	x \$ =		OR	x \$ =	
IND	EPENDENT CLAIM CFR 1.16(h))	1S	m	inus 3 = *		1	x \$ =		1	x \$ =	
	□APPLICATION SIZE FEE (37 CFR 1.16(s)) If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).										
	MULTIPLE DEPEN	NDENT CLAIM PR	ESENT (3	7 CFR 1.16(j))							
* If	he difference in col	umn 1 is less than	zero, ente	r "0" in column 2.			TOTAL			TOTAL	
APPLICATION AS AMENDED – PART II (Column 1) (Column 2) (Column 3)						SMAL	L ENTITY	OR		ER THAN ALL ENTITY	
AMENDMENT	11/04/2008	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
OME	Total (37 CFR 1.16(i))	* 21	Minus	** 21	= 0		X \$26 =	0	OR	x \$ =	
IJ	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0		X \$110 =	0	OR	x \$ =	
AMI	Application Size Fee (37 CFR 1.16(s))										
	FIRST PRESE	NTATION OF MULTIF	LE DEPEN	DENT CLAIM (37 CFF	₹ 1.16(j))				OR		
							TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	
		(Column 1)		(Column 2)	(Column 3)		'				
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
EN	Total (37 CFR 1.16(i))	*	Minus	**	=		x \$ =		OR	x \$ =	
NDMENT	Independent (37 CFR 1.16(h))	*	Minus	***	=		x \$ =		OR	x \$ =	
Ψ	Application Size Fee (37 CFR 1.16(s))										
AME	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								OR		
							TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Electronic Acknowledgement Receipt					
EFS ID:	4036993				
Application Number:	11743470				
International Application Number:					
Confirmation Number:	6891				
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND				
First Named Inventor/Applicant Name:	Kathy McEwen				
Customer Number:	20594				
Filer:	Michael A. O Neil/marsha green				
Filer Authorized By:	Michael A. O Neil				
Attorney Docket Number:	683592-0004				
Receipt Date:	30-SEP-2008				
Filing Date:	02-MAY-2007				
Time Stamp:	18:26:52				
Application Type:	Utility under 35 USC 111(a)				

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/122 (01-06)

683592-1001

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11/743,470 **Application Number CHANGE OF** 5/02/2007 **CORRESPONDENCE ADDRESS** Filing Date Application Kathy McEwen First Named Inventor 2619 Art Unit Address to: Hooman Houshmand

Examiner Name

Attorney Docket Number

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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Signature /Ruben C. DeLeon/						
Typed or Printed Name Ruben C. DeLeon			,			
Date September 30, 2008						
NOTE: Signatures of all the inventors or assignees of reco forms if more than one signature is required, see below.	ord of the entire interest or the	neir representative(s) are requir	red. Submit multiple			

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APPLICATION NO.	PLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/743,470	11/743,470 05/02/2007 Kathy McEwen		683592-0004	6891
	7590 08/05/200 STRAUSS HAUER & I	EXAMINER		
PO BOX 688		HOUSHMAND, HOOMAN		
DALLAS, TX 7	/3313-0088	ART UNIT	PAPER NUMBER	
			2619	
			MAIL DATE	DELIVERY MODE
			08/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	11/743,470	MCEWEN, KATHY			
Office Action Summary	Examiner	Art Unit			
	Hooman Houshmand	2619			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on <u>02 May 2007</u>. This action is FINAL. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) Claim(s) 1-21 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and, Application Papers 9) The specification is objected to by the Examir 10) The drawing(s) filed on 02 May 2007 is/are: a Applicant may not request that any objection to th Replacement drawing sheet(s) including the corre	awn from consideration. for election requirement. her. a) ☐ accepted or b) ☒ objected to led to be drawing(s) be held in abeyance. Section is required if the drawing(s) is objected to led	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
	Examiner. Note the attached Office	7.00.011.01.10111.1.10.102.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Office Action Summary

Part of Paper No./Mail Date 20080714

Art Unit: 2619

DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "714 (figure 7)" and "702 (figure 8)" have both been used to designate Portal. In addition, other reference characters appear to be designating the same item (e.g. Controller 712 and 700). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "702 (figures 7 and 8)" has been used to designate both Video (figure 7) and Portal (figure 8). In addition, other reference characters appear to be designating multiple items (e.g. element 700). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if

Art Unit: 2619

only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following: Pages 10-11 Paragraph
 the last line states: all Portals 700. However, the previous line states: Portals 702.
 Two reference characters, 700 and 702, have been used to designate Portal.

Claim Objections

- 4. Claims 1-3, 7, 10-13, 16-17, 19 are objected to because of the following: wherein clauses have been utilized. Language that suggests or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim or claim limitation. "wherein" clauses may raise a question as to the limiting effect of the language in a claim. (see MPEP 2111.04)
- 5. Claims 1 (line 10) and 10 (line 9) are objected to because of the following: "ingress and agrees traffic" is recited, it appears ingress and egress were intended.
- 6. Claims 2, 11 and 17 are objected to because of the following: The claim recites at least one of the following; however, AND is used to separate the limitations expected OR. It is unclear what each individual limitation is.

Art Unit: 2619

7. Claims 14 is objected to because of the following: The claim recites the portal

which lacks antecedent basis.

Claim Rejections - 35 USC § 112

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claims 1-9, 10-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 10. Claim 10 line 3 recites to be determined by the user upon termination. It is unclear what upon termination refers to.
- 11. Claim 10 line 14 recites *intervention by a pre-paid billing solution*. It is unclear what *intervention* refers to.
- 12. Claim 1 line 9, and claim 10 line 8 recite *tightly controlled*. It is unclear what this limitation is.
- 13. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

14. Claims 1-9, 10-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contain subject matter which was not described in the specification in such a way as to enable one skilled in the art to

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which it pertains, or with which it is most nearly connected, to make and/or use the invention.

15. Claim 1 line 8, and claim 10 line 7 recite *deliver high quality and low latency* bandwidth. The specification does not adequately describe how *high quality and low latency* are determined.

Claim Rejections - 35 USC § 103

- 16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 17. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe (20050276218), in view of Khakzar (US 5781623), Cheng (US 20020150094), Rawlins (US 20020191539).

Claim 1. (best understood) Ooghe teaches sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type ([0117] video V requires a bandwidth with a QoS for a period of time T. The service provider VOD requests the access resource controller ARC via the core network whether it can be granted those resources for the subscriber), the request includes a source address and a destination address ([0079] cross-reference table associating the identifier of an ATM virtual channel with the IP address of the

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subscriber to which that virtual channel relates); determining whether the request will be approved or denied ([0117] whether it can be granted those resources for the subscriber), admission ([0029] Connection Admission Control); and reserving resources for a transmission of information of the specified bandwidth, which is managed and monitored by the controller for the specified time from the source address to the destination address ([0012] bandwidth and the QoS required for a connection are negotiated at connection establishment time. network reserves the appropriate resources for the connection, [0026] a static amount of bandwidth continuously available during the connection lifetime).

Ooghe teaches a control system ([0117] service provider requests the access resource controller), but may not explicitly teach the control system instructing a bearer platform. In the same field of endeavor, Khakzar discloses instructing a bearer platform (4:40-45 switching network contains a matrix structure and its construction is similar to a cross-connect. this makes it possible to couple the bearer channels of the user port units with each other, or with a bearer channel of the interface unit. switching such connections through the switching network is controlled by the control unit). The combination of the teachings of Khakzar and Ooghe discloses the control system instructing a bearer platform.

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Khakzar with Ooghe to control an access network.

Ooghe may not explicitly teach managed by remote platform.

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In the same field of endeavor, Cheng discloses managed by remote platform ([0008] multicast communications. audio/video conferencing, data distribution from surveillance platforms, command distribution from leaders/commanders, information sharing within peer group and between peer groups, real-time control of remote platforms and

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Cheng with Ooghe to control an access network.

database/server replications for fault tolerance).

Ooghe may not explicitly teach *point-to-point and point-to-multipoint connections*. In the same field of endeavor, Rawlins discloses *point-to-point and point-to-multipoint connections* ([0025] QoS signaling protocol on the control plane of network devices that is utilized to request resources, requests resources for a unidirectional flow, operate with unicast and multicast routing protocols to ensure QoS, decides the downstream interface on policy and admission control for QoS).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Rawlins with Ooghe to control the network.

Claim 2. Ooghe further teaches at least one of the following: a service ([0016] quality of service, [0017-0026] differentiated service categories) type, a video code type and a voice codec type and the codec type determines an amount of bandwidth required for the user ([0026] video streaming or Voice over IP).

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18. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

Khakzar, Cheng, Rawlins, in view of Gaddis (US 5457681).

Claim 3. Ooghe further teaches request is sent ([0117] service provider requests the

access resource controller via the core network whether it can be granted those

resources for the subscriber), but may not explicitly teach request is sent to a portal.

In the same field of endeavor, Gaddis discloses a portal (11:63-12:35 portal filters

incoming frames). The combination of the teachings of Gaddis with Ooghe discloses

request is sent to a portal.

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

19. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

Khakzar, Cheng, Rawlins, Gaddis, in view of Justen (US 20060187831).

Claim 4. Ooghe teaches a controller ([0117] service provider requests the access

resource controller), but may not explicitly teach instructing the portal by a controller.

In the same field of endeavor, Justen discloses instructing the portal by a controller

([0012], [0046-0049] controller module executes portal software, FIG. 9, FIG. 10 portal

controller module).

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It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Justen with Ooghe to remotely monitor and control a target location.

20. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, Khakzar, Cheng, Rawlins, Gaddis, Justen, in view of Henry (US 20040151153).

Claim 5. Ooghe may not explicitly teach a plurality of portals.

In the same field of endeavor, Henry teaches a plurality of portals ([0011] each link comprises a plurality of portals).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Henry with Ooghe to manage resources of a link in a communication network.

21. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe , Khakzar , Cheng , Rawlins, Gaddis , Justen, in view of Litzenberger (US 5835497).

Claim 6. Ooghe further teaches *plurality of I/O ports* ([0076] plurality of physical Input/Output ports), *signaling* ([0076] electrical signal of a subscriber line), *session* ([0079] subscriber session), *routing* ([0123] data packets are routed through the core network), *bandwidth* ([0127] bandwidth required), *quality* ([0041] quality of service), *management* ([0075] signaling planes and the management planes terminating at or

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relayed across any of its physical ports, hardware components for those planes to operate), *admission* ([0029] connection Admission Control).

Ooghe may not explicitly teach billing function.

In the same field of endeavor, Litzenberger discloses *billing function* (1:55-60 back-office systems, billing platform, network management platform, fraud management platform).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Litzenberger with Ooghe to keep track of services provided to customers.

22. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, Khakzar, Cheng, Rawlins, Gaddis, Justen.

Claim 7. Ooghe further teaches *I/O ports* ([0076] plurality of physical Input/Output ports).

Ooghe may not explicitly teach bearer connections, a switching matrix and a portal connectivity processing element.

In the same field of endeavor, Khakzar discloses *bearer connections, a switching matrix* and a portal connectivity processing element (4:40-45 switching network contains a matrix structure and its construction is similar to a cross-connect. this makes it possible to couple the bearer channels of the user port units with each other, or with a bearer

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channel of the interface unit. switching such connections through the switching network

is controlled by the control unit).

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Khakzar with Ooghe to control an

access network.

23. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

Khakzar, Cheng, Rawlins, Gaddis, Justen, in view of Goshen (US 20070002897).

Claim 8. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe may not explicitly teach interconnecting content service to the controller and the

portal.

In the same field of endeavor, Goshen discloses content service ([0009] providing of

content).

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Goshen with Ooghe to manage

bandwidth allocation.

In the same field of endeavor, Gaddis discloses a portal (11:63-12:35 portal filters

incoming frames).

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It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

The combination of teachings of Gaddis, Ooghe and Goshen discloses interconnecting

content service to the controller and the portal.

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24. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

Khakzar, Cheng, Rawlins, Gaddis, Justen, in view of Litzenberger.

Claim 9. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe may not explicitly teach interconnecting back-office provisioning, billing and

element management systems to the controller and portal.

In the same field of endeavor, Litzenberger discloses back-office provisioning, billing

and element management systems (1:55-60 back-office systems, billing platform,

network management platform, fraud management platform).

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Litzenberger with Ooghe to keep

track of services provided to customers.

In the same field of endeavor, Gaddis discloses a portal (11:63-12:35 portal filters

incoming frames).

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It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Gaddis with Ooghe to permit transparent interconnection between network segments.

The combination of teachings of Gaddis, Litzenberger and Ooghe discloses interconnecting back-office provisioning, billing and element management systems to the controller and portal.

25. Claims 10-13, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, in view of Litzenberger, Khakzar, Cheng, Rawlins (US 20020191539), Pillai (US 20030133552).

Claim 10. (best understood) Ooghe teaches sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type ([0117] video V requires a bandwidth with a QoS for a period of time T. The service provider VOD requests the access resource controller ARC via the core network whether it can be granted those resources for the subscriber), the request also includes a source address and a destination address ([0079] cross-reference table associating the identifier of an ATM virtual channel with the IP address of the subscriber to which that virtual channel relates); admission ([0029] Connection Admission Control); and determining whether the request will be approved or denied ([0117] whether it can be granted those resources for the subscriber), if the request is approved, reserving resources for a transmission of information of the specified

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bandwidth for the specified quality from the source address to the destination address ([0012] The connection-oriented mode of operation allows the network to check whether enough resources are available for a connection and then to commit some Quality of Service for that connection. bandwidth and the QoS required for a connection are negotiated at connection establishment time. network can reserve therefrom the appropriate resources for this connection).

Ooghe may not explicitly teach *generating billing records*.

In the same field of endeavor, Litzenberger discloses *generating billing records* (1:55-60 back-office systems, billing platform, network management platform, fraud management platform).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Litzenberger with Ooghe to keep track of services provided to customers.

Ooghe teaches a control system ([0117] service provider requests the access resource controller), but may not explicitly teach the control system instructing a bearer platform. In the same field of endeavor, Khakzar discloses instructing a bearer platform (4:40-45 switching network contains a matrix structure and its construction is similar to a cross-connect. this makes it possible to couple the bearer channels of the user port units with each other, or with a bearer channel of the interface unit. switching such connections through the switching network is controlled by the control unit). The combination of the teachings of Khakzar and Ooghe discloses the control system instructing a bearer platform.

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It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Khakzar with Ooghe to control an access network.

Ooghe may not explicitly teach managed by remote platform.

In the same field of endeavor, Cheng discloses *managed by remote platform* ([0008] multicast communications. audio/video conferencing, data distribution from surveillance platforms, command distribution from leaders/commanders, information sharing within peer group and between peer groups, real-time control of remote platforms and database/server replications for fault tolerance).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Cheng with Ooghe to control an access network.

Ooghe may not explicitly teach *point-to-point and point-to-multipoint connections*. In the same field of endeavor, Rawlins discloses *point-to-point and point-to-multipoint connections* ([0025] QoS signaling protocol on the control plane of network devices that is utilized to request resources, requests resources for a unidirectional flow, operate with unicast and multicast routing protocols to ensure QoS, decides the downstream interface on policy and admission control for QoS).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Rawlins with Ooghe to control the network.

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Ooghe may not explicitly teach network terminates the connection in real-time, real-time

intervention by a pre-paid billing solution.

In the same field of endeavor, Pillai discloses network terminates the connection in real-

time, real-time intervention by a pre-paid billing solution ([0023] In prepaid services the

customer pays in advances for a designated quantum of resources. network elements

coordinate with different provisioning and user support systems to dynamically monitor

resource consumption in real-time; once the designated levels of resource use are

exceeded, the network elements terminate ongoing connections. the network elements

and databases are configured with the latest data on the residual resources, remaining

voice call minutes or remaining MB of data packet available to each user).

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Pillai with Ooghe to control the

network.

Claim 11. Ooghe further teaches at least one of the following: a service ([0016] quality

of service, [0017-0026] differentiated service categories) type, a video code type and a

voice codec type and the codec type determines an amount of bandwidth required for

the user ([0026] video streaming or Voice over IP).

Claim 12. Ooghe further teaches plurality of I/O ports ([0076] plurality of physical

Input/Output ports), signaling ([0076] electrical signal of a subscriber line), session

([0079] subscriber session), routing ([0123] data packets are routed through the core

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network), bandwidth ([0127] bandwidth required), quality ([0041] quality of service),

management ([0075] signaling planes and the management planes terminating at or

relayed across any of its physical ports, hardware components for those planes to

operate), admission ([0029] connection Admission Control).

Claim 13. Ooghe further teaches I/O ports ([0076] plurality of physical Input/Output

ports).

Ooghe may not explicitly teach bearer connections, a switching matrix and a portal

connectivity processing element.

In the same field of endeavor, Khakzar discloses bearer connections, a switching matrix

and a portal connectivity processing element (4:40-45 switching network contains a

matrix structure and its construction is similar to a cross-connect. this makes it possible

to couple the bearer channels of the user port units with each other, or with a bearer

channel of the interface unit. switching such connections through the switching network

is controlled by the control unit).

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Khakzar with Ooghe to control an

access network.

Claim 15. Ooghe teaches a control system ([0117] service provider requests the access

resource controller).

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Ooghe may not explicitly teach interconnecting back-office provisioning, billing and element management systems to the control system and the bearer platform.

In the same field of endeavor, Litzenberger discloses *back-office provisioning, billing* and element management systems (1:55-60 back-office systems, billing platform, network management platform, fraud management platform).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Litzenberger with Ooghe to keep track of services provided to customers.

In the same field of endeavor, Khakzar discloses *a bearer platform* (4:40-45 switching network contains a matrix structure and its construction is similar to a cross-connect. this makes it possible to couple the bearer channels of the user port units with each other, or with a bearer channel of the interface unit. switching such connections through the switching network is controlled by the control unit).

It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Khakzar with Ooghe to control an access network.

The combination of the teachings of Khakzar, Litzenberger and Ooghe discloses interconnecting back-office provisioning, billing and element management systems to the control system and the bearer platform.

26. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe, Litzenberger, Khakzar, Cheng, Rawlins, Pillai, in view of Goshen, Gaddis.

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Claim 14. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe may not explicitly teach interconnecting content service to the controller and the

portal.

In the same field of endeavor, Goshen discloses content service ([0009] providing of

content)

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Goshen with Ooghe to managing

bandwidth allocation.

In the same field of endeavor, Gaddis discloses a portal (11:63-12:35 portal filters

incoming frames).

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

The combination of teachings of Gaddis, Ooghe and Goshen discloses interconnecting

content service to the controller and the portal.

27. Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Ooghe, in view of Gaddis.

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Claim 16. Ooghe teaches sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type ([0117] video V requires a bandwidth with a QoS for a period of time T. service provider VOD requests the access resource controller ARC via the core network whether it can be granted those resources for the subscriber), the request also includes a source address and a destination address ([0079] cross-reference table associating the identifier of an ATM virtual channel with the IP address of the subscriber to which that virtual channel relates), and determining whether the request will be approved or denied ([0117] whether it can be granted those resources for the subscriber), if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified time from the source address to the destination address ([0012] The connection-oriented mode of operation allows the network to check whether enough resources are available for a connection and then to commit some Quality of Service for that connection. bandwidth and the QoS required for a connection are negotiated at connection establishment time, network can reserve therefrom the appropriate resources for this connection).

Ooghe teaches a control system ([0117] service provider VOD requests the access resource controller ARC via the core network), but may not explicitly teach the control system includes a portal.

In the same field of endeavor, Gaddis discloses *a portal* (11:63-12:35 portal filters incoming frames). The combination of the teachings of Gaddis and Ooghe discloses the control system includes a portal.

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It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

Claim 17. Ooghe further teaches at least one of the following: a service ([0016] quality

of service, [0017- 0026] differentiated service categories) type, a video code type and a

voice codec type and the codec type determines an amount of bandwidth required for

the user ([0026] video streaming or Voice over IP).

Claim 18. Ooghe further teaches plurality of I/O ports ([0076] plurality of physical

Input/Output ports), signaling ([0076] electrical signal of a subscriber line), session

([0079] subscriber session), routing ([0123] data packets are routed through the core

network), bandwidth ([0127] bandwidth required), quality ([0041] quality of service),

management ([0075] signaling planes and the management planes terminating at or

relayed across any of its physical ports, hardware components for those planes to

operate), admission ([0029] Connection Admission Control).

28. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

Gaddis, in view of Khakzar.

Claim 19. Ooghe further teaches I/O ports ([0076] plurality of physical Input/Output

ports).

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Ooghe may not explicitly teach bearer connections, a switching matrix and a portal

connectivity processing element.

In the same field of endeavor, Khakzar discloses bearer connections, a switching matrix

and a portal connectivity processing element (4:40-45 switching network contains a

matrix structure and its construction is similar to a cross-connect. this makes it possible

to couple the bearer channels of the user port units with each other, or with a bearer

channel of the interface unit. switching such connections through the switching network

is controlled by the control unit).

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Khakzar with Ooghe to control an

access network.

29. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

Gaddis, in view of Goshen.

Claim 20. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe may not explicitly teach interconnecting content service to the controller and the

portal.

In the same field of endeavor, Goshen discloses content service ([0009] providing of

content)

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It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Goshen with Ooghe to managing

bandwidth allocation.

In the same field of endeavor, Gaddis discloses a portal (11:63-12:35 portal filters

incoming frames).

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

The combination of teachings of Gaddis, Ooghe and Goshen discloses interconnecting

content service to the controller and the portal.

30. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ooghe,

Gaddis, in view of Litzenberger.

Claim 21. Ooghe teaches a controller ([0117] service provider requests the access

resource controller).

Ooghe may not explicitly teach interconnecting back-office provisioning, billing and

element management systems to the controller and portal.

In the same field of endeavor, Litzenberger discloses back-office provisioning, billing

and element management systems (1:55-60 back-office systems, billing platform,

network management platform, fraud management platform).

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It would have been obvious to a person having ordinary skill in the art, at the time that the invention was made, to combine the teachings of Litzenberger with Ooghe to keep

track of services provided to customers.

In the same field of endeavor, Gaddis discloses a portal (11:63-12:35 portal filters

incoming frames).

It would have been obvious to a person having ordinary skill in the art, at the time that

the invention was made, to combine the teachings of Gaddis with Ooghe to permit

transparent interconnection between network segments.

The combination of teachings of Gaddis, Litzenberger and Ooghe discloses

interconnecting back-office provisioning, billing and element management systems to

the controller and portal.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hooman Houshmand whose telephone number is

(571)270-1817. The examiner can normally be reached on Monday - Friday 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. H./ Examiner, Art Unit 2619

/Hassan Kizou/

Supervisory Patent Examiner, Art Unit 2619

Notice of References Cited Application/Control No. 11/743,470 Examiner Hooman Houshmand Applicant(s)/Patent Under Reexamination MCEWEN, KATHY Page 1 of 1

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*	Α	US-5,835,497	11-1998	Litzenberger et al.	370/522
*	В	US-2007/0002897	01-2007	GOSHEN et al.	370/468
*	С	US-5,781,623	07-1998	Khakzar, Karim	379/230
*	D	US-5,457,681	10-1995	Gaddis et al.	370/402
*	Е	US-2005/0276218	12-2005	Ooghe et al.	370/229
*	F	US-2003/0133552	07-2003	Pillai et al.	379/114.2
*	G	US-2002/0191539	12-2002	Rawlins et al.	370/229
*	Н	US-2002/0150094	10-2002	Cheng et al.	370/389
*	ı	US-2004/0151153	08-2004	Henry et al.	370/346
*	J	US-2006/0187831	08-2006	Justen, Jarmo	370/229
	К	US-			
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	0					
	Р					
	Q					
	R					
	S					
	Т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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"A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

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Index of Claims	11743470	MCEWEN, KATHY
	Examiner	Art Unit
	Hooman Houshmand	2619

✓	Rejected	-	Cancelled		N	Non-Elected	Α	Appeal
=	Allowed	÷	Restricted		I	Interference	O	Objected
	Claims renumbered in the	e same o	rder as presented by ap	plica	ant	□ СРА] т.с	D R.1.47

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Final	Original	07/16/2008								
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	2	✓								
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	5	√								
	6	√								
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	10	✓								
	11	√								
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	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								
	21	✓								

U.S. Patent and Trademark Office Part of Paper No.: 20080714

Search Notes



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11743470

Applicant(s)/Patent Under Reexamination

MCEWEN, KATHY

Examiner

Art Unit

Hooman Houshmand

2619

	SEARCHED		
Class	Subclass	Date	Examiner
370	229,395.21 (text search only)	7/14/2008	НН

SEARCH NOTES		
Search Notes	Date	Examiner
EAST, NPL	7/14/2008	HH
Inventorship search completed in eDAN	7/14/2008	HH

	INTERFERENCE SEA	ARCH	
Class	Subclass	Date	Examiner

U.S. Patent and Trademark Office Part of Paper No.: 20080714



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BIB DATA SHEET

CONFIRMATION NO. 6891

SERIAL NUM	BER	FILING or DAT			CLASS	GRO	OUP ART	UNIT	ATTO	RNEY DOCKET
11/743,47	'0	05/02/2			370		2619		6	83592-0004
		RULI	E							
APPLICANTS Kathy Mo	_	Plano, TX;								
** CONTINUIN This appl		A ************ s benefit of 60			/2006					
** FOREIGN A	PPLICA	TIONS *****	******	*****	*					
** IF REQUIRE 05/25/200		EIGN FILING	LICENS	E GRA	ANTED ** ** SMA	LL E	NTITY **			
Foreign Priority claims 35 USC 119(a-d) cond	ditions met	Yes No	☐ Met af Allowa	ter ince	STATE OR COUNTRY		HEETS WINGS	TOT/ CLAII		INDEPENDENT CLAIMS
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ADDRESS		Ŭ.								
AKIN GU P O BOX DALLAS, UNITED	688 TX 753		ER & FELI	D, LLF)					
TITLE										
SYSTEM	AND M	IETHOD OF	PROVIDIN	NG BA	NDWIDTH ON D	EMAI	ND			
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		for					☐ 1.18 F	ees (lss	ue)	
							☐ Other			
							☐ Credit			
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BIB (Rev. 05/07).

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2683	(370/229,395.21).COLS.	US-PGPUB; USPAT	OR	OFF	2008/07/22 14:23
L2	2343	control\$3 remote platform	US-PGPUB; USPAT	WITH	ON	2008/07/22 14:24
L3	2	L2 and 1	US-PGPUB; USPAT	WITH	ON	2008/07/22 14:24
L4	386	bandwidth\$on\$demand	US-PGPUB; USPAT	OR	ON	2008/07/22 14:28
L5	13	L4 and 1	US-PGPUB; USPAT	WITH	ON	2008/07/22 14:28
S11	1	((KATHY) near2 (MCEWEN)).INV.	US-PGPUB; USPAT	OR	ON	2008/07/14 15:16
S14			US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/15 11:31
S17	386	bandwidth\$on\$demand	US-PGPUB; USPAT	OR	ON	2008/07/15 11:32
S18	2978	bandwidth codec	US-PGPUB; USPAT	SAME	ON	2008/07/15 11:32
S19	36041	source address destination	US-PGPUB; USPAT	SAME	ON	2008/07/15 11:33
S21	29903	codec	US-PGPUB; USPAT	SAME	ON	2008/07/15 11:33
S25	7	S17 S21 S14	US-PGPUB; USPAT	AND	ON	2008/07/15 11:39
S26	168	request (quality OR QoS) (time OR duration) (bandwidth OR codec)	US-PGPUB; USPAT	WITH	ON	2008/07/15 11:51
S30	73	source address destination address portal	US-PGPUB; USPAT	SAME	ON	2008/07/15 12:01
S31	1	S26 S30	US-PGPUB; USPAT	SAME	ON	2008/07/15 12:01
S41	(subscriber data function) AND (session management function) AND (routing bandwidth admission) AND (quality QoS)		US-PGPUB; USPAT	SAME	ON	2008/07/15 13:36
S48	35	port bearer (connection OR connectivity) switching matrix	US-PGPUB; USPAT	SAME	ON	2008/07/15 14:37

S54	56	content service controller portal	US-PGPUB; USPAT	SAME	ON	2008/07/15 15:08
S57	27	back\$office bill\$3 manage \$4	US-PGPUB; USPAT	WITH	ON	2008/07/15 15:46
S66	2338	control\$3 remote platform	US-PGPUB; USPAT	WITH	ON	2008/07/16 11:50
S69	109	S66 and "370".clas.	US-PGPUB; USPAT	WITH	ON	2008/07/16 11:51
S70	3	control\$3 remote platform admission	US-PGPUB; USPAT	WITH	ON	2008/07/16 11:51
S76	72	(point\$to\$point OR unicast) (point\$to \$multipoint OR multicast) admission	US-PGPUB; USPAT	SAME	ON	2008/07/16 13:28
S79	3	user network terminate connection real\$time pre \$paid	US-PGPUB; USPAT	SAME	ON	2008/07/16 13:42
S80	720	"portals" controller	US-PGPUB; USPAT	WITH	ON	2008/07/16 14:23
S81	74	S80 and "370".clas.	US-PGPUB; USPAT	WITH	ON	2008/07/16 14:23
S88	311	plurality portals	US-PGPUB; USPAT	NEAR	OFF	2008/07/16 14:40
S89	18	S88 and "370".clas.	US-PGPUB; USPAT	WITH	ON	2008/07/16 14:41

7/ 22/ 2008 2:36:17 PM

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11743470 - GAU: 2619 11743470 **Application Number** Filing Date 2007-05-02 INFORMATION DISCLOSURE First Named Inventor Kathy McEwen STATEMENT BY APPLICANT Art Unit 2616 (Not for submission under 37 CFR 1.99) **Examiner Name** HOUSHMAND, HOOMAN Attorney Docket Number 683592-0003

	1	Information Sciences Institute, "INTERNET PROTOCOL DARPA INTERNET PROGRAM PROTOCOL SPECIFICATION", prepared for Defense Advanced Research Projects Agency Information Processing Techniques Office, September 1981					
	D. Awduche, J. Malcolm, J. Agogbua, M. O'Dell, J. McManus, UUNET (MCI Worldcom), "NETWORK WORKING GROUP REQUEST FOR COMMENTS: 2702 Category: Informational, "Requirements for Traffic Engineering Over MPLS", September 1999"						
	S. Yasukawa, Ed., NTT, NETWORK WORKING GROUP REQUEST FOR COMMENTS: 4461 Category: Informational, "Signaling Requirements for Point-to-Multipoint Traffic-Engineered MPLS Label Switched Paths (LSPs)", April 2006						
	D. Awduche, Movaz Networks, Inc., L. Berger, D. Gan, Juniper Networks, Inc., T. Li, Procket Networks, Inc., V. Srinivasan, Cosine Communications, Inc., G. Swallow, Cisco Systems, Inc., NETWORK WORKING GROUP REQUEST FOR COMMENTS: 3209 Category: Standards Track, "RSVP-TE: Extensions to RSVP for LSP Tunnels", December 2001						
If you wis	h to ad	ndd additional non-patent literature document citation information p	olease click the Add b	outton Add			
		EXAMINER SIGNATURE					
Examiner	Signa	ature /Hooman Houshmand/	Date Considered	07/28/2008			
		nitial if reference considered, whether or not citation is in conformation conformation and not considered. Include copy of this form with					
Standard ST ⁴ Kind of doc	Γ.3). ³ F cum ent	of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ² Enter office For Japanese patent documents, the indication of the year of the reign of the Empt by the appropriate symbols as indicated on the document under WIPO Standard translation is attached.	eror must precede the ser	rial number of the patent doc	ument.		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.H./

	Application Number		11743470
	Filing Date		2007-05-02
INFORMATION DISCLOSURE	First Named Inventor	Kathy	McEwen
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		2616
(Not for Submission under 67 of K 1.55)	Examiner Name	HOUS	SHMAND, HOOMAN
	Attorney Docket Numb	er	683592-0003

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Application Number 11743470 Filing Date 2007-05-02 First Named Inventor Kathy McEwen Art Unit 2616 Examiner Name HOUSHMAND, HOOMAN Attorney Docket Number 683592-0003

	1	Information Sciences Institute, "INTERNET PROTOCOL DARPA INTERNET PROGRAM PROTOCOL SPECIFICATION", prepared for Defense Advanced Research Projects Agency Information Processing Techniques Office, September 1981				
	2	D. Awduche, J. Malcolm, J. Agogbua, M. O'Dell, J. McManus, UUNET (MCI Worldcom), "NETWORK WORKING GROUP REQUEST FOR COMMENTS: 2702 Category: Informational, "Requirements for Traffic Engineering Over MPLS", September 1999"				
	3	S. Yasukawa, Ed., NTT, NETWORK WORKING GROUP REQUEST FOR COMMENTS: 4461 Category: Informational, "Signaling Requirements for Point-to-Multipoint Traffic-Engineered MPLS Label Switched Paths (LSPs)", April 2006				
	4	D. Awduche, Movaz Networks, Inc., L. Berger, D. Gan, Juniper Networks, Inc., T. Li, Procket Networks, Inc., V. Srinivasan, Cosine Communications, Inc., G. Swallow, Cisco Systems, Inc., NETWORK WORKING GROUP REQUEST FOR COMMENTS: 3209 Category: Standards Track, "RSVP-TE: Extensions to RSVP for LSP Tunnels", December 2001				
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		EXAMINER SIGNATURE				
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.						

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number		11743470
Filing Date		2007-05-02
First Named Inventor Kathy		McEwen
Art Unit		2616
Examiner Name HOUS		SHMAND, HOOMAN
Attorney Docket Number		683592-0003

		CERTIFICATION	STATEMENT			
Plea	ase see 37 CFR 1	.97 and 1.98 to make the appropriate selection	on(s):			
	That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).					
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X	That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).					
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	None	0.0				
ı	SIGNATURE A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.					
Sigr	nature	/Sanford E. Warren, Jr./	Date (YYYY-MM-DD)	2008-07-23		
Nan	ne/Print	Sanford E. Warren, Jr.	Registration Number	33219		

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Electronic Acknowledgement Receipt						
EFS ID:	3662454					
Application Number:	11743470					
International Application Number:						
Confirmation Number:	6891					
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND					
First Named Inventor/Applicant Name:	Kathy McEwen					
Customer Number:	20594					
Filer:	Sanford E. Warren/Karen Thiesse					
Filer Authorized By:	Sanford E. Warren					
Attorney Docket Number:	683592-0004					
Receipt Date:	23-JUL-2008					
Filing Date:	02-MAY-2007					
Time Stamp:	12:50:48					
Application Type:	Utility under 35 USC 111(a)					

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement	US IDS Form SB 08a.pdf	771790		4
1	(IDS) Filed	03_lb3_F0IIII_3b_06a.pui	ce8056541651a7f77c41882175247dd3 1684de39	no	4
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NPI Documents	rf791.pdf —	976734	no	49
W E bocuments	117.91.pui	01bc9adb4571609ed0d2661df427e93d 1328ca43	110	49
NPL Documents	2702 pdf	1755997	no	
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NPI Documents	RFC_4461_SIGNALING_RE	1619759	no	29
W E Bocaments	QUIREMENTS.pdf	dbf691b7062d15d374d70a8366fcae1a 27b3e550	110	23
NPI Documents	BEC 3300 BSVP TEING	3076714	no	57
NI E Documents	111 0_0209_110 V1 _1 E.pai	334e0f00c4073fc91fda7c33160cee9c3 d026d8d	110	51
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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/743,470	05/02/2007	Kathy McEwen	683592-0003

CONFIRMATION NO. 6891

20594 AKIN GUMP STRAUSS HAUER & FELD, LLP P O BOX 688 DALLAS, TX75313-0688

Title: SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND

Publication No. US-2007-0258361-A1

Publication Date: 11/08/2007

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/743,470	05/02/2007	2616	450	683592-0003	21	3

CONFIRMATION NO. 6891

20594 AKIN GUMP STRAUSS HAUER & FELD, LLP P O BOX 688 DALLAS, TX75313-0688 **FILING RECEIPT**

Date Mailed: 05/25/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Kathy McEwen, Plano, TX;

Power of Attorney: The patent practitioners associated with Customer Number 20594

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/796,660 05/02/2006

Foreign Applications

If Required, Foreign Filing License Granted: 05/25/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is

US11/743,470

Projected Publication Date: 11/08/2007

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND

Preliminary Class

370

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Application Data Sheet 37 CFR 1.76				Attorney Docket Number			683592-0003										
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SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority to and benefit of U.S. Provisional Application

Serial No. 60/796,660, filed May 2, 2006, entitled: IMPROVED SYSTEM AND METHOD OF

PROVIDING BANDWIDTH ON DEMAND, by inventor Kathy McEwen [Attorney Docket No.

683592-0002].

BACKGROUND OF THE INVENTION

[0002] The present invention generally relates to communications systems, and

specifically to an improved system and method of providing guaranteed bandwidth on demand

for an end user and/or enterprise.

[0003] Internet protocol (IP) networks were designed to handle any traffic, on any port, at

any time. The goal was to utilize as many computing platforms as were available across a

consortium of universities, governments and industries willing to share information (Reference

IETF RFC 791 Internet Protocol Darpa Internet Program Protocol Specification, September

1981).

[0004] With these goals in mind, each of the computing platforms, or routers, were

originally designed to be ad-hoc in nature. That is, they broadcast on each of their ports, the

routing and cost to send a packet to itself. Each manufacturer of these routers defined their own

concept of cost and its associated value. As a result of IP's original design goals, the path that a

packet takes from origin to destination is completely unpredictable. In the example in Figure 1, a

user is attempting to send IP video packets streaming from a source 100 to a destination 102, but

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the originator can not predict nor control how those packets will be transported across an IP network 104, nor can the originator even assume that all the packets streamed through the network 104 will take the same path to reach the destination 102. An IP router can not plan how a packet (or stream of packets) will reach its destination, nor can routers plan how many other routers will transmit the packet. It takes, on average, anywhere from 10 to 20 or more routers to send a packet across the internet today.

Now referring to Figure 2, every router stops each incoming packet to determine whether it is allowed, its class of service, how to route it, and then, because they are processing so many unpredictable packet sizes/rates, they must queue the packets at both the ingress 200 and egress 202 ports, and possibly even at the internal switching matrix 204. A typical IP router architecture includes packet switching matrices 204, intelligent routing processors 206, and large memory queues at the ingress 200 (incoming) and egress 202 (outgoing) ports, as well as at a centralized interconnect level to move packets from one ingress port card to a different egress port card. With so much queuing and processing on each packet, packets may be lost or delayed beyond video services quality tolerance.

The services that may be delivered on broadband are many, ranging from real-time critical applications for communication purposes: video calling, multi-player gaming, telemedicine, television studio broadcast interviews, and high-definition news multicasting to name a few. These examples and a few others are listed in Figure 3. These real time critical applications are very sensitive to any delay and for any that may include video or gaming frames, very sensitive to any variance in the delay. Applications which include video are also sensitive to any packets (or frames) which may be lost in the transmission (0.0001% packet loss is the preferred quality for video transmission).

[0007] Multi-Protocol Label Switching (MPLS) was developed to overcome some of the traffic engineering constraints of the IP protocols. MPLS allows operators to engineer a core network that aggregates traffic from IP, ATM, Frame Relay or even time-division voice domains, across a common packet core network. MPLS network operators can pre-define label switch paths, and ensure that virtual private network traffic is delivered on specific routes to achieve guaranteed quality of service levels (See IETF RFC 2702, Requirements for Traffic Engineering over MPLS).

[8000] MPLS standards have expanded to include point-to-multipoint multicasting (Reference IETF 4461: Signaling Requirements for Point-to-Multipoint Traffic-Engineered MPLS Label Switched Paths (LSPs)), and resource reservation protocols (Reference IETF RFC 3209, RSVP-TE: Extensions to RSVP for LSP Tunnels and RFC 4420) that dynamically utilize bandwidth across the core thus enabling less expensive transport for video broadcast traffic. The multicasting protocol enables construction of a distribution tree that replicates packets only at the branch points, rather than from the origination point. Now referring to Figure 4, a stream of packets can begin at a single source point in the IP domain, and traverse across an MPLS packet network starting at a point 400, following a controlled path to a specific router at point 402, bypassing any un-necessary MPLS routers like point 404. The Originating MPLS Router can utilize the point-to-multipoint multicasting capabilities of MPLS, to instruct MPLS Router 402 to multicast the traffic to another user connected to MPLS Router 406. MPLS also expanded to include a Fast-Reroute method, which allows for a 50 millisecond route recovery in the event of a link failure, comparable to that of optical SONET networks. These attributes make MPLS the technology of choice for core network video transport today.

[0009] However, MPLS does not readily extend to the customer premises locations, as its focus has been on core packet transport aggregation, enabling controlled routing and quality of assurance through the packet transport. Also, MPLS was developed around the concept of delivering enterprise virtual private networking; thus much of the protocols and methods of packet quality assurance in MPLS require the utilization of a virtual Local Area Network (LAN).

[0010] Although IP Multimedia Subsystem (IMS) standard protocols evolved to try to address handling real-time multimedia streams across the IP packet domain, these standards have largely focused on enabling the streaming services as an overlay solution across existing IP network domains, without addressing any changes to the IP or MPLS routing architectures. Quality assurance requires managing the services end to end, from customer access point to access point. In addition, IMS standards were intended to be access agnostic, so the customer premises access point standards have been separately handled by various wireless (CDMA, GSM, UMTS, WiFi, WiMax, etc.) and wireline (Cable, DSL and Fiber, etc.) access standards.

[0011] Recently, focus for broadband applications has moved away from IMS to an evolution of these protocols within the 3GPP organization called TISPAN (Telecommunications & Internet Converged Services and Protocols for Advanced Networking). TISPAN intends to include methods for handling resource allocation and quality assurance, but again does not address the elements that sit within the customer premises to network access domain, leaving those up to the other standards bodies governing the various access types.

[0012] For the current broadband services deployments taking place, broadband network operators are utilizing mechanisms like the IEEE 802.1p bit marking to differentiate the service classes, and route traffic accordingly. Now referring to Figure 5, the current services, comprising legacy public switched voice 500, video 502 and best-effort internet 504 access are

served by existing network components, interconnected to the access networks via ATM, IP or IP/MPLS routers 506 and/or optical multiplexing solutions 508. Consumers and/or enterprises 510 connect via an access network 512, broadband or narrowband, to the services domain through access network equipment such as DSL Access Multiplexors (DSLAMs), Fiber Optic Access (such as Optical Line Terminals-OLTs) and various other access technologies. Services are delivered with assurance by interconnecting to the consumers via the broadband access network utilizing technologies such as IEEE 802.1 p bit defined service types. There are 8 p bits to differentiate service type - thus only 8 service classes. This is insufficient to cover a multitude of service offerings that may all require high quality broadband connections.

Today, the only quality video transport with assurance that operators can use are dedicated line, virtual private networking services. Each new service that requires a high quality packet transport requires a separate virtual private network. This does not allow for dynamic bandwidth allocation and utilization - thus it does not economically scale across multiple services or across multiple users. An example of is illustrated in Figure 6.

[0014] Video transmission requires compression in order to effectively utilize the available broadband bandwidth across packet domains. Currently there are numerous different methods for encoding the video, some standardized and some are proprietary. Many existing video communication solutions today utilize proprietary mechanisms, which are incompatible across multi-vendor and access domains. Additionally, the video compression methods vary greatly in the bandwidth they require to transport the video in real-time - some solutions are as low as 64 kbps up to 300 Mbps. The bandwidth required can vary based on the codec type and the quality type compressed within the codec type. For example, MPEG-4 (Motion Picture

Experts Group-4) defines methods to combine and encode video with sound and text, including the encoding of Standard Definition and High Definition.

[0015] Therefore, what is needed is an improved method and system of delivering guaranteed high bandwidth applications to an end user and/or enterprise end to end.

SUMMARY OF THE INVENTION

[0016] The invention follows the access and core network standards, while combining the missing elements necessary to build a public switched visual network. The invention enables access providers to offer end-to-end high quality visual communications services by dynamically utilizing network bandwidth and resources, to offer many services to end users. In addition, the invention enables the aforementioned services to be billed in real-time.

[0017] Therefore, in accordance with the previous summary, objects, features and advantages of the present disclosure will become apparent to a person of the ordinary skill in the art from the subsequent description and the appended claims taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0018] Figure 1 is a diagram representing IP Routing In-efficiencies;

[0019] Figure 2 is a diagram of a typical IP Router Architecture;

[0020] Figure 3 is a diagram of Sample Broadband Applications Quality Requirements;

[0021] Figure 4 is a diagram of MPLS Traffic Engineering and Point to Multipoint

Multicasting;

[0022] Figure 5 is a diagram of a Broadband Access Network;

[0023] Figure 6 is a diagram of Multiple Services Offered with Quality across Broadband Network Domains;

- [0024] Figure 7 is a diagram of a Controller and Portal Solution in the Access Network;
- [0025] Figure 8 is a diagram of a Controller and Portal Solution;
- [0026] Figure 9 is a diagram of a Controller and Portal Distributed Deployment;
- [0027] Figure 10 is a diagram of a Controller and Portal End-to-End Network Solution;

and

[0028] Figure 11 is a diagram of a Controller and Portal Architectural Solution.

DETAILED DESCRIPTION

[0029] The present disclosure can be described by the embodiments given below. It is understood, however, that the embodiments below are not necessarily limitations to the present disclosure, but are used to describe a typical implementation of the invention.

[0030] The present invention provides an improved unique system and method of providing bandwidth on demand for an end user and/or enterprise. It is understood, however, that the following disclosure provides many different embodiments, or examples, for implementing different features of the invention. Specific examples of components, signals, messages, protocols, and arrangements are described below to simplify the present disclosure. These are, of course, merely examples and are not intended to limit the invention from that described in the claims. Well known elements are presented without detailed description in order not to obscure the present invention in unnecessary detail. For the most part, details unnecessary to obtain a complete understanding of the present invention have been omitted inasmuch as such details are within the skills of persons of ordinary skill in the relevant art.

Details regarding control circuitry described herein are omitted, as such control circuits are within the skills of persons of ordinary skill in the relevant art.

[0031] The invention involves taking a distributed approach to handling bearer packets, with a physically separated controller and managed portal platform. The Controller handles signaling, routing, dynamic bandwidth admission control, codec (video and/or voice) negotiation, end-to-end quality assurance, session management, subscriber data, billing, provisioning and associated operational functions. The Portal handles the packet bearer transport with the admission control and routing instructions given by the separate physical Controller. The invention fits at the access and/or in the core network. Connections can be made between consumers, enterprises and/or content providers. For example, consumer to business, business to consumer, consumer to consumer, business to business, consumer to content provider, business to content provider, content provider to consumer, content provider to business, and content provider to content provider.

Now referring to Figure 7, the current services, comprising legacy public switched voice 700, video 702 and best-effort internet access 704 will continue to be served by the existing network components, interconnected to the access networks 706 as they are today via ATM, IP or IP/MPLS routers 708 and optical multiplexing solutions 710. The Controller 712 and Portal 714 are introduced at the central office 716, in similar locations as edge IP/MPLS aggregation routers 708. The Controller 712 and Portal 714 delivers high quality bandwidth on demand services 705. For example, video and gaming applications, can interconnect to the consumers 718 via the access network 706.

[0033] The Controller **712** accepts requests from an originating end-point to access the network with a high quality connection dynamically. The Controller **712** then negotiates across

end-to-end.

the network with the terminating end-point(s) to set up the connection, and ensures interoperability of service type (if used) and video codec type, and quality bandwidth reservation

[0034] Instead of trying to introduce a new class of service type for each additional high

quality service and content provider at the access edge (See Figure 6), one class of service type is

introduced to cover all high quality services (See Figure 7). Then all traffic requesting this

service type is routed to an access Controller 714 and 716 Portal for handling. Alternatively, if

the broadband access provider does not want to provision a specific class of service for the

Controller and Portal for handling, a consumer may signal directly to the Controller and Portal.

[0035] Now referring to Figure 8, when one dynamic video or bandwidth user wants to

connect to another, they simply dial a directory number or IP address or web page to request a

connection on demand. The Controller 700 will receive the request, including bandwidth

required and if video, a video codec type and a service type tag (if applicable) for billing

purposes, and determine from its embedded subscriber database whether the user is authorized to

use the bandwidth, video type and service or not, how to bill them, and whether the destination

party can be reached.

[0036] The Controller 700 and Portal 702 are interconnected to each other and to content

providers. The Controller 700 and Portal 702 also interconnect consumers, businesses and/or

content providers. The control signaling connects using protocols directly to consumers,

businesses, and/or content providers. The bearer between consumers, businesses, and/or content

providers is connected through the Portal platforms 702.

[0037] In order to ensure quality, the Controller 700 inter-works with network protocols to

dynamically provision a dedicated path, including required route and bandwidth, on demand

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through the network. The Controller 700 directs its associated Portal platform 702 to allocate local port resources, and then signals any destination party's Controller to reserve far-end

resources.

[0038] The Controller **700** enables each bandwidth on demand user, originator and terminator, to negotiate with the network. The negotiation includes information elements necessary to ensure an end-to-end video connection free from video codec conversion in the core if possible. This avoids interoperability issues between user systems, and enables all application

end-points to communicate freely.

Now referring to Figure 9, the Controller **700** and Portals **702** can be physically located in the same location or in separate locations. The Controller **700** communicates and controls the portals **702** via a link - the distance from the Controller **700** to the Portals **702** can be close or very far. This allows network owners to optimize transmission utilization to keep high bandwidth traffic closest to the user, while centralizing routing, maintenance, operations and control functions in a single regional location.

The invention takes distributed switching control concepts from the low-bandwidth voice domain, and extends them to the variable-bandwidth packet routing domain. Moreover, the Portal 702 is under the direct management of the Controller 700. It only accepts traffic on its ports when authorized by the Controller 700 in real-time, and notifies the Controller 700 if a user's traffic terminates or exceeds allowance. The Portal 702 does not perform new routing on any packet, and only acts on the information provided by the controller 700. If any packets are received on any port at the Portal 702, which are arriving from a user that has not been authorized to use it, then those packets are discarded without prejudice. If an authorized user should exceed the limit authorized, the Controller 700 is informed, and an alarm is raised. The

Controller 700 determines whether the user who is exceeding their limit should be disconnected, or allowed to continue, and instructs the Portal 702 according to a pre-set time limit. The Controller 700 contains a completely integrated bandwidth/portal admission control, routing and element management solution, which tracks, manages, and bills for all usage (Controller 700 plus its subordinate Portals 702). Furthermore, the maximum limit of Portals 702 to Controller 700 is determined based on the aggregate subscriber usage capacity across all Portals 700.

[0041] Now referring to Figure 10, the Controller 700 and Portals 702 serve the access networks at the access locations, which are near consumers, businesses, and/or near to content providers. The Controller 700 and Portal 702 interconnect to each other and any other platforms, which could be via existing IP/MPLS routers or multiplexing equipment or other transport connection mechanisms. The consumers 1004, 1006 are connected directly to the Controller 700 and Portal 702 across the access. Content providers, back-office provisioning, billing and element management systems interconnect to the Controller 700 and Portals 702. The best-effort internet is bypassed completely for any high quality broadband connections. In addition, all provisioning, element management and routing is managed at the Controller 700, and is visible via a remote connection. Furthermore, the Controller supports flexible charging arrangements that can be based on any combination of or single element of service type, time elapsed, codec type and bandwidth used on the network; and this can be billed for either after the session has terminated, or in real-time through a pre-paid billing mechanism which allows for termination of the session at any time based on available credit(s). Originating and terminating party records are issued, or both, including information about route used for transport charging purposes. If users are connecting across regions, states, nations or carriers, the information is recorded for billing purposes.

[0042] Now referring to figure 11, a Controller 700 and Portal 702 serve the access networks at the access locations 1104. The Controller 700 and Portal 702 interconnect to each other and any other platforms 1106, which could be via existing IP/MPLS routers 1108 and/or multiplexing equipment and/or any other transport mechanisms. In addition, the consumers 1110, businesses 1112 and or content providers 1114 are connected, for control signaling via path 1116 and via path 1118 for bearer path, directly to the Controller 700 and Portal 702 across the access domain. The Controller 700 includes I/O ports 1120, 1122, and 1124 connecting a signaling/security function 1126 to a message distribution function 1128 that handles distributing all control signaling to the subscriber data function 1130, session management function 1132, routing/bandwidth admission and quality assurance management function 1134, and handles all functions including billing/OA&M 1136, necessary for the broadband services to be dynamically connected and managed with quality. The Portal 702 includes I/O ports 1138 on line cards 1140 for the bearer connections, a switching matrix 1142 and a portal connectivity processing element 1144. The content services 1114 interconnects to the Controller 700 and Portal 702. The backoffice provisioning, billing and element management systems 1132 interconnect to the Controller 700 and Portal 702. The best-effort internet 1146 is bypassed completely for any high quality broadband connections.

The previous description of the disclosed embodiments is provided to enable those skilled in the art to make or use the present invention. Various modifications to these embodiments will be readily apparent to those skilled in the art and generic principles defined herein may be applied to other embodiments without departing from the spirit or scope of the invention. Thus, the present invention is not intended to be limited to the embodiments shown

herein but is to be accorded the widest scope consistent with the principles and novel features disclosed herein.

WHAT IS CLAIMED IS:

1. A method of providing bandwidth on demand to an end user, the method comprising:

sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type, wherein the request also includes a source address and a destination address; and

determining whether the request will be approved or denied, wherein if the request is approved, instructing a bearer platform, by the control system, in setting up dynamic bandwidth connections, wherein the bearer platform responds to controller designated bearer port and route selection decisions to deliver high quality and low latency bandwidth connections point-to-point and point-to-multipoint and wherein the bearer port is tightly controlled by a remote platform such that all ingress and agrees traffic bandwidth admission is managed by the remote platform; and reserving resources for a transmission of information of the specified bandwidth, which is managed and monitored by the controller for the specified time from the source address to the destination address.

- 2. The method of claim 1 wherein the request also includes at least one of the following: a service type, a video code type and a voice codec type and wherein the codec type determines an amount of bandwidth required for the user.
- 3. The method of claim 1 wherein the request is sent to a portal.
- 4. The method of claim 3 further including instructing the portal by a controller.
- 5. The method of claim 4 further including a plurality of portals.
- 6. The method of claim 4 further including connecting a plurality of I/O ports to a signaling/security function to a message distribution function that handles distributing all control

signaling to a subscriber data function, a session management function, billing function and a routing/bandwidth admission and quality assurance management function.

- 7. The method of claim 4 wherein the portal includes I/O ports on line cards for the bearer connections, a switching matrix and a portal connectivity processing element.
- 8. The method of claim 4 further including interconnecting a content services device to the controller and the portal.
- 9. The method of claim 4 further including interconnecting back-office provisioning, billing and element management systems to the controller and portal.
- 10. A method of providing bandwidth on demand to an end user, the method comprising:

sending a request for the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type, to be determined by the user upon termination, wherein the request also includes a source address and a destination address;

instructing a bearer platform, by the control system, in setting up dynamic bandwidth connections, wherein the bearer platform makes a bearer port and route selection decisions to deliver high quality and low latency bandwidth connections point-to-point and point-to-multipoint and wherein the bearer port is tightly controlled by a remote platform such that all ingress and agrees traffic bandwidth admission is managed by the remote platform; and

determining whether the request will be approved or denied, wherein if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified quality from the source address to the destination address, until either the user or the network owner determines to terminate the connection in real-time, upon which real-time billing records may be generated recording available usage information or real-time intervention by a pre-paid billing solution.

11. The method of claim 10 wherein the request also includes at least one of the following: a service type, a video code type and a voice codec type and wherein the codec type determines an

amount of bandwidth required for the user.

12. The method of claim 10 wherein the control system includes a plurality of I/O ports

connected to a signaling/security function to a message distribution function that handles

distributing all control signaling to a subscriber data function, a session management function

and a routing/bandwidth admission and quality assurance management function.

13. The method of claim 10 wherein the bearer platform includes I/O ports on line cards for

the bearer connections, a switching matrix and a portal connectivity processing element.

14. The method of claim 10 further including interconnecting a content services device to the

controller and the portal.

15. The method of claim 10 further including interconnecting back-office provisioning,

billing and element management systems to the control system and the bearer platform.

16. A method of providing bandwidth on demand to an end user, the method comprising:

sending a request for the user to a control system for a quality of connection service for a

specific time limit and either a specific bandwidth or a codec type, wherein the request also

includes a source address and a destination address, wherein the control system includes a

controller and a portal; and

determining whether the request will be approved or denied, wherein if the request is

approved, reserving resources for a transmission of information of the specified bandwidth for

the specified time from the source address to the destination address.

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17. The method of claim 16 wherein the request also includes at least one of the following: a service type, a video code type and a voice codec type and wherein the codec type determines an

amount of bandwidth required for the user.

18. The method of claim 16 further including connecting a plurality of I/O ports to a signaling/security function to a message distribution function that handles distributing all control

signaling to a subscriber data function, a session management function and a routing/bandwidth

admission and quality assurance management function.

19. The method of claim 16 wherein the portal includes I/O ports on line cards for the bearer

connections, a switching matrix and a portal connectivity processing element.

20. The method of claim 16 further including interconnecting a content services device to the

controller and the portal.

21. The method of claim 16 further including interconnecting back-office provisioning,

billing and element management systems to the controller and portal.

ATTORNEY DOCKET NO. 683592-0003

PATENT

SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND

ABSTRACT

An improved system and method of providing bandwidth on demand for an end user and/or enterprise is disclosed. The method includes: sending a request from the user to a control system for a quality of connection service for a specific time limit and either a specific bandwidth or a codec type, wherein the request also includes a source address and a destination address, optional service type and optional video and/or voice codec negotiation; and determining whether the request will be approved or denied, wherein if the request is approved, reserving resources for a transmission of information of the specified bandwidth for the specified time from the source address to the destination address.

18

683592.0002 WEST 6074199 v4

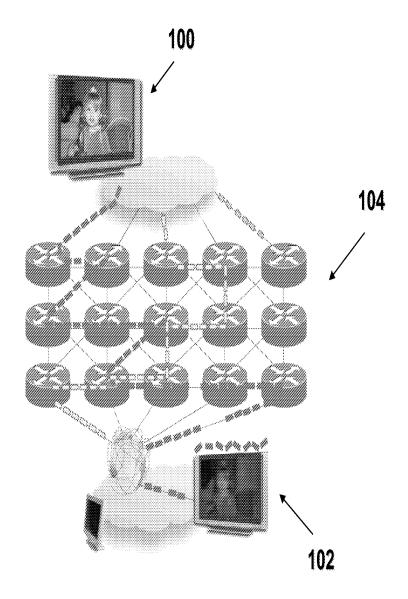


Figure 1

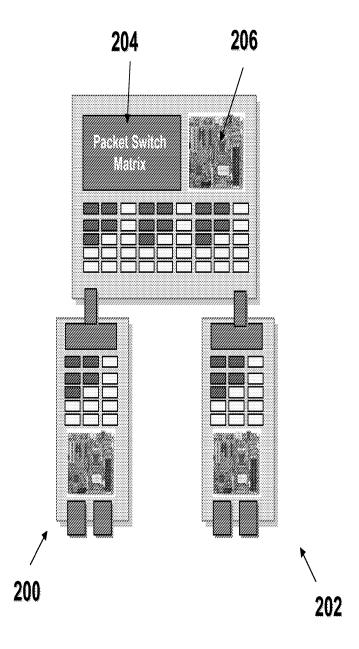


Figure 2

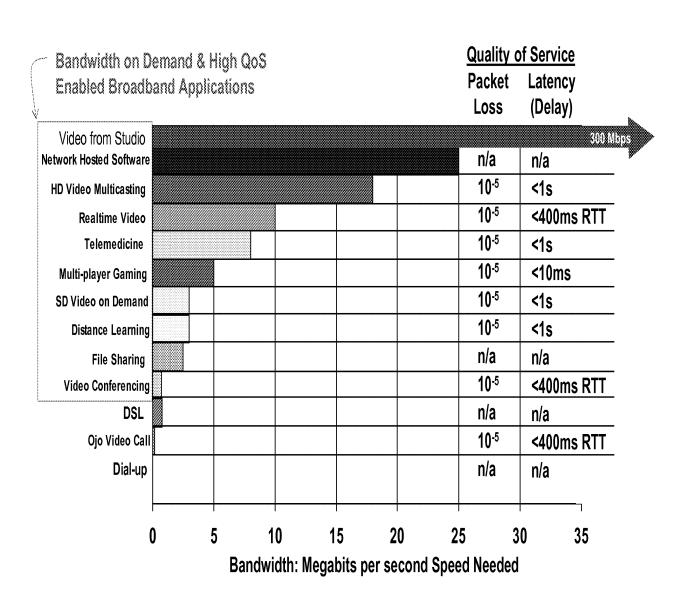


Figure 3

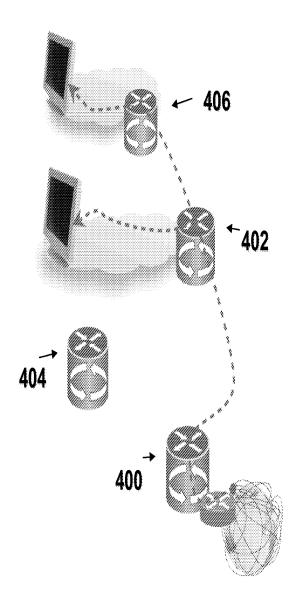


Figure 4

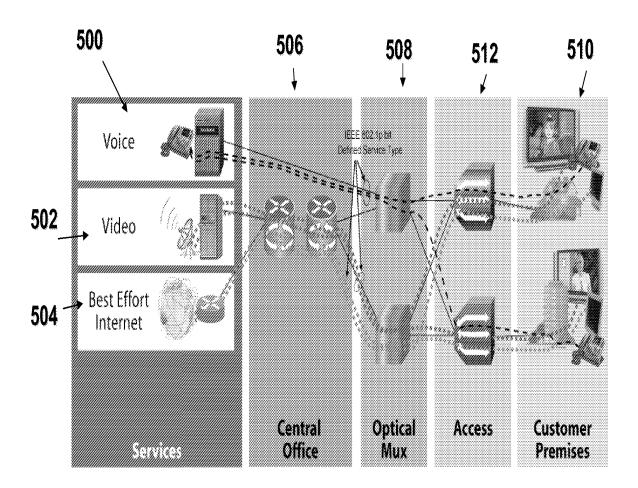
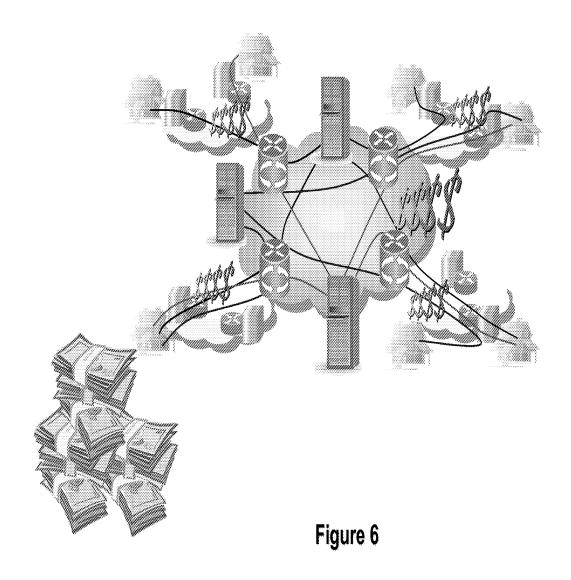
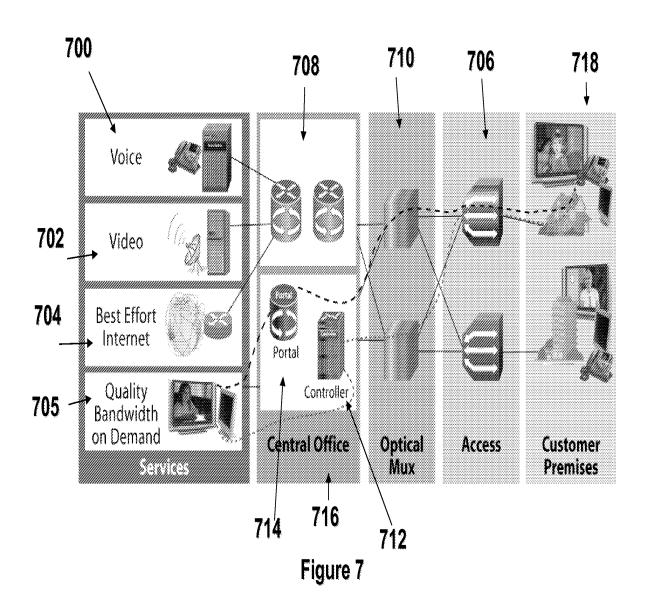
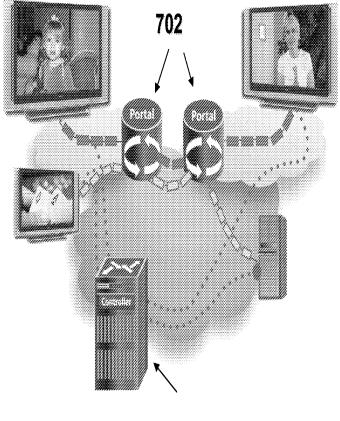


Figure 5







700

Figure 8

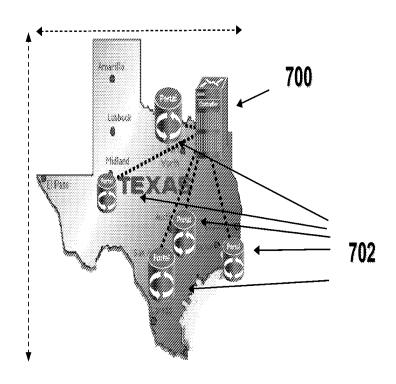


Figure 9

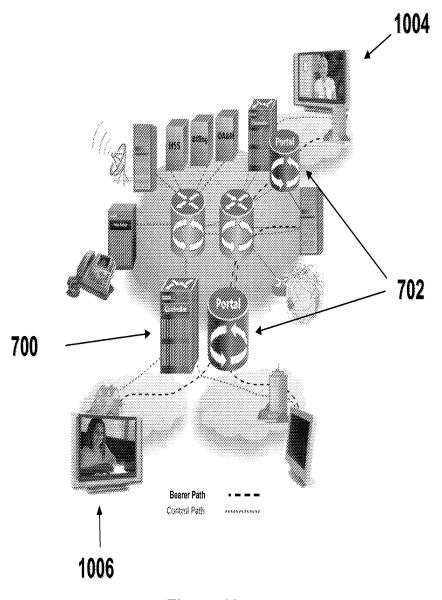


Figure 10

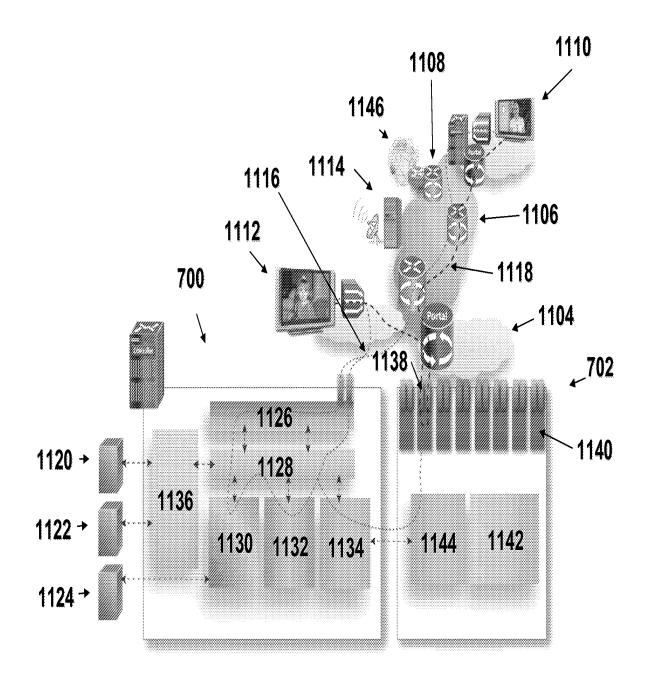


Figure 11

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	SYSTEM AND METHOD OF PROVIDING BANDWIDTH ON DEMAND					
As the belo	w named inventor(s), I/we declare that:					
This declar	ation is directed to:					
	The attached application, or					
	Application Nofiled on					
	As amended on (if applicable);					
I/we believe sought:	e that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is					
	reviewed and understand the contents of the above-identified application, including the claims, as amended by any it specifically referred to above;					
material to became av	wledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which railable between the filing date of the prior application and the national or PCT International filing date of the n-in-part application.					
	WARNING:					
contribute of numbers (or the USPTC) the USPTC them to the publication or issuance application	Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not published available.					
to be true, a punishable	All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.					
FULL NAM	E OF INVENTOR(S)					
Inventor on	e: Kathy McEwen)					
1	Citizen of: Canada					
l .	0:					
Signature:						
Addition	onal inventors or a legal representative are being named onadditional form(s) attached hereto.					
	of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file SPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1					

minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer. U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/81 (01-06)
Approved for use through 12/31/2008. OMB 0651-0035
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
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Application Number	
Filing Date	herewith
First Named Inventor	Kathy McEwen
Title	S&M. PROVIDING BANDWIDTH ON DEMAN
Art Unit	
Examiner Name	
Attorney Docket Number	683592-0003

I hereby revoke all previo	ous powers of attorney given in t	the above-identif	ied application.					
I hereby appoint:								
Practitioners associated	Practitioners associated with the Customer Number: 20594							
OR	OR							
Practitioner(s) named be	elow:							
	Name	T	Registration Number					
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as my/our attorney(s) or agent Trademark Office connected th		above, and to trans	act all business in the United States Patent and					
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Firm or Individual Name	AKIN GUMP STRAUSS HAUER & FE	LD LLP						
Address								
City		State	Zip					
Country Telephone		Email						
Lam the:	<u> </u>	Elliali						
Applicant/Inventor.								
	the entire interest. See 37 CFR 3.71.							
	CFR 3.73(b) is enclosed. (Form PTO/SB/	96)						
) SIGNATURE of Applica	nt or Assignee of R	ecord					
Signature	Hu NV		Date Way 2 2007					
Name Rathy McEwer Telephone 449 231 6778								
Title and Company								
NOTE: Signatures of all the invento signature is required, see below*.	rs or assignees of record of the entire interest	or their representative(s) are required. Submit multiple forms if more than one					
*Total of 1	forms are submitted.							

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer.
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Electronic Patent A	Electronic Patent Application Fee Transmittal				
Application Number:					
Filing Date:					
Title of Invention:	SYS	STEM AND METI	HOD OF PROV	/IDING BANDWI	TH ON DEMAND
First Named Inventor/Applicant Name: Kathy McEwen					
Filer:		oen C. DeLeon/S	eana Montgom	ery	
Attorney Docket Number:		683592.0003			
Filed as Large Entity					
Utility Filing Fees					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Utility application filing		1011	1	300	300
Utility Search Fee		1111	1	500	500
Utility Examination Fee		1311	1	200	200
Pages:					
Claims:					
Claims in excess of 20		1202	1	50	50
Miscellaneous-Filing:					
Petition:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)				
Patent-Appeals-and-Interference:								
Post-Allowance-and-Post-Issuance:	Post-Allowance-and-Post-Issuance:							
Extension-of-Time:								
Miscellaneous:								
	Tota	al in USE) (\$)	1050				

Electronic Acknowledgement Receipt					
EFS ID:	1738376				
Application Number:	11743470				
International Application Number:					
Confirmation Number:	6891				
Title of Invention:	SYSTEM AND METHOD OF PROVIDING BANDWITH ON DEMAND				
First Named Inventor/Applicant Name:	Kathy McEwen				
Customer Number:	20594				
Filer:	Ruben C. DeLeon/Seana Montgomery				
Filer Authorized By:	Ruben C. DeLeon				
Attorney Docket Number:	683592.0003				
Receipt Date:	02-MAY-2007				
Filing Date:					
Time Stamp:	16:52:16				
Application Type:	Utility				

Payment information:

	Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	Iridescent_683592_NON_PR OV_ADSApplication_Data _Sheet.pdf		no	4
Warnings:					

Information:						
2		IRIDESCENT_683592_PAT ENT_BANDWIDTH_ON_DE MAND.pdf	1595947	yes	18	
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	Document D	Start	Start En			
	Specific	ation	1	1	3	
	Clain	าร	14	14 17		
	Abstra	act	18	1	8	
Warnings:						
Information:						
3	Drawings	Iridescent_683592_Revised_ Pat_Drawings_Bandwidth_O n_demand.pdf	1394564	no	11	
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4	Oath or Declaration filed	Iridescent_683592_Declarati on.pdf	2500971	no	1	
Warnings:						
Information:						
5	Power of Attorney	Iridescent_683592_POA.pdf	2088048	no	1	
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Information:						
6	Fee Worksheet (PTO-06)	fee-info.pdf	8483	no	2	
Warnings:				<u> </u>		
Information:						
		Total Files Size (in bytes):	85	565399		

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Kathy McEwen

Conf. No.: 6891

Group Art Unit:

None yet

Appln. No.:

Filing Date:

11/743,470

May 2, 2007

Attorney Docket No.: 683592-0003

Title: SYSTEM AND METHOD OF

PROVIDING BANDWIDTH ON

DEMAND

PATENT FEES DUE FOR NON-PROVISIONAL FILING

This miscellaneous communication is submitted to address the issue of fees due in the current application. Upon filing the subject application the fees calculate were based on a large entity status. At the point of submission the Applicant status could not be changed, and as such, no fees were paid with the initial patent filing. Upon the suggestion of the U.S. Patent and Trademark Office's Electronic Business Center, attorneys for Applicant logged out of the EFS system without making payment, and logged back into the EFS system on the same day (i.e., May 2, 2007) to make payment of all fees associated with filing a basic utility application under the claim of small entity status.

Fees that will be accompanying this communication are in the amount of \$450, which includes all fees due for filing a basic utility application with a small entity status, namely, Basic Filing Fees, Utility Search Fees, Utility Examination Fees, and fees due for claims in excess of 20. Payment of the aforementioned fees will complete all requirements for a patent application filing.

1

Should any questions arise in this matter, The Office of Initial Patent Examination is invited to contact the undersigned.

Respectfully submitted,

Direct Email: rdeleon@akingump.com Email: trademarkdallas@akingump.com

5/02/2007	By:	/Ruben C. DeLeon/
Date		Ruben C. DeLeon, Reg. No. 37,812
		Akin Gump Strauss Hauer & Feld LLP
		P. O. Box 688
		Dallas, Texas 75313-0688
		Direct Telephone: (214) 969-2721

683592.0002 WEST 6078791 v1 2

Electronic Patent Application Fee Transmittal					
Application Number:	117	743470			
Filing Date:					
Title of Invention:		STEM AND METI	HOD OF PRO\	/IDING BANDWI	DTH ON DEMAND
First Named Inventor/Applicant Name:	Kai	thy McEwen			
Filer:		ben C. DeLeon/S	eana Montgom	ery	
Attorney Docket Number:	683592-0003				
Filed as Small Entity					
Utility Filing Fees					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Utility filing Fee (Electronic filing)		4011	1	75	75
Utility Search Fee		2111	1	250	250
Utility Examination Fee		2311	1	100	100
Pages:					
Claims:					
Claims in excess of 20		2202	1	25	25
Miscellaneous-Filing:					
Petition:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)			
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Post-Allowance-and-Post-Issuance:							
Extension-of-Time:							
Miscellaneous:							
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Electronic Acknowledgement Receipt							
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Application Number:	11743470						
International Application Number:							
Confirmation Number:	6891						
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First Named Inventor/Applicant Name:	Kathy McEwen						
Customer Number:	20594						
Filer:	Ruben C. DeLeon/Seana Montgomery						
Filer Authorized By:	Ruben C. DeLeon						
Attorney Docket Number:	683592-0003						
Receipt Date:	02-MAY-2007						
Filing Date:							
Time Stamp:	18:07:42						
Application Type:	Utility						

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$450
RAM confirmation Number	900
Deposit Account	010657

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 and 1.17

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	IRIDESCENT_683592_misc ellaneous_correspondence_r e_payment_of_patent_relate d_fees.pdf	68733	no	2
Warnings:					
Information:					
2	Fee Worksheet (PTO-06)	fee-info.pdf	8508	no	2
Warnings:					
Information:					
		77241			

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (12-04)

Approved for use through 7/31/2006. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						11/743,470						
APPLICATION AS FILED - PART I (Column 1) (Column 2) SMAL						SMALL E	NTITY .	OTHER THAN SMALL ENTITY				
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* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.												

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