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# APPLICATION

Of

### **BRIAN MOORE**

For

#### UNITED STATES LETTERS PATENT

On

# AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT

BEAER:58327

Sheets of Drawings: 14 sheets

# EXPRESS MAIL NO. EL691915311US

Attorneys FULWIDER PATTON LEE & UTECHT Howard Hughes Center 6060 Center Drive, 10<sup>th</sup> Floor Los Angeles, CA 90045

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# AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT

### BACKGROUND OF THE INVENTION

#### Field of the Invention:

This invention relates generally to resting and sleeping quarters for an aircraft crew, and more particularly concerns overhead aircraft crew resting and sleeping quarters with amenities and emergency equipment, in a space-saving and weight-saving configuration occupying substantially otherwise unused space aboard an aircraft.

#### Description of Related Art:

Resting or sleeping facilities are commonly provided for the crew and/or passengers of ships, boats, trucks, buses, and the like when they are used for transportation of cargo or passengers over long distances. However, such facilities have been more uncommon for long distance airline flights, due to aircraft weight constraints and limitations of available space aboard aircraft. Bunks for crew members aboard ship, for example, are typically constructed of heavy metal frames bolted together to provide a heavy structure inappropriate for aircraft.

One approach to an aircraft crew rest facility is currently available that provides configurations having 6 or 7 bunks. However, the crew rest facility is located in the lower lobe cargo bay of the aircraft, and occupies otherwise valuable cargo space, resulting in a loss of full freight capability for the aircraft. The weight of the crew rest facility is approximately 2,200 pounds, which further limits the capacity of the aircraft for carrying cargo or passengers.

It would therefore be desirable to provide an improved configuration for a crew rest and sleeping station with increased capacity for crew members, includes all necessary amenities and emergency equipment to meet the requirements of flight regulations, and principally occupies an area of the aircraft that is otherwise

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generally unused. It would also be desirable to provide a crew rest and sleeping station that has a space-saving and weight-saving configuration that minimizes the reduction in capacity of the aircraft for carrying cargo or passengers. The present invention meets these needs.

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#### SUMMARY OF THE INVENTION

Briefly, and in general terms, the present invention provides for an improved crew rest station having less weight (typically approximately 1,250 pounds), no loss of cargo space, and more bunk space.

The present invention according provides for an aircraft crew rest station for a long distance airline flight, the aircraft having a hull with a curved top portion, a lowered ceiling, and a space therebetween, comprising an overhead crew rest portion contoured to occupy the space between the curved top portion of the hull of the aircraft and the lowered ceiling of the aircraft, and an entry vestibule providing access to the overhead crew rest portion. The overhead crew rest portion includes at least one bunk portion, and in a preferred embodiment, contains one or more bunk selected from forward, aft, and side bunk portions. The crew rest station can be located approximately in the aircraft midsection. In one presently preferred embodiment, the overhead crew rest portion comprises forward, aft, and side bunk portions configured in cross-wise fashion. In a presently preferred aspect, the vestibule also provides a lavatory area, as well as a closet space.

These and other aspects and advantages of the invention will become apparent from the following detailed description and the accompanying drawings, which illustrate by way of example the features of the invention.

### BRIEF DESCRIPTION OF THE DRAWINGS

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phantom;

Fig. 1 is a perspective view of aircraft showing crew rest station in

Fig. 2 is a top plan schematic diagram of placement of crew rest station aboard the aircraft;

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Fig. 3 is a perspective schematic view of overhead crew rest portion, forward rest rooms, and vestibule;

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Fig. 4 is a top plan view of the overhead crew rest portion;

Fig. 5 side elevational sectional view of the overhead crew rest portion; Fig. 6 is a cross-sectional view of the mid-section of the aircraft looking forward through the overhead crew rest portion;

> Fig. 7 is a cutaway perspective view of the overhead crew rest portion; Fig. 8 is another perspective view of the overhead crew rest portion;

Fig. 9 is a perspective view of the interior of the overhead crew rest

10 portion shown in Fig. 8;

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Fig. 104s a perspective view of the lavatory/vanity area showing the crew rest entry way:

Fig. 11' is a sectional elevational view of the lavatory/vanity area showing the crew rest entry way taken along line 11-11 of Fig. 4;

Fig. 12 is a top plan schematic view showing the layout of the crew rest station;

Fig. 13 is a perspective schematic diagram illustrating the general layout of a right side forward bunk;

Fig. 14 is a perspective cutaway view of the right side forward bunks; Fig. 15 is a sectional view of the main crew control panel taken along line 15-15 of Fig. 14;

Fig. 16 is a sectional view of a bunk area taken along line 16-16 of Fig. 14;

Fig. 17 is a sectional view of the interior of the overhead crew rest portion taken along line 17-17 of Fig. 14;

Fig. 18 is a sectional view of the cabinet for emergency equipment, waste receptacles, and the like taken along line 18-18 of Fig. 17;

Fig. 19 is a sectional view of an overhead light, smoke detector, and emergency panel taken along line 19-19 of Fig. 17;

Fig. 20 is an enlarged sectional view of an alternate embodiment of the main crew rest control panel taken along line 20-20 of Fig. 17;

Fig. 21 is a sectional view of a corner bunk access step and aisle light

taken along line 21-21 of Fig. 17;

Fig. 22 is a sectional schematic view of the forward crew lavatory/coat closet and crew rest entry taken along line 22-22 of Fig. 7;

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Fig. 23 is a perspective view of the vestibule showing the folding doors and entry way;

Fig. 24 is a sectional view of the coat closet looking aft and inboard taken along line 24-24 of Fig. 22; and

Fig. 25 is a sectional view of the lavatory taken along line 25-25 of Fig. 24.

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# DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Due to weight and space constraints for aircraft, crew resting or sleeping quarters in aircraft used for transportation of cargo or passengers over long distances need to provide all the necessary amenities and emergency equipment to meet the requirements of flight regulations with a minimum occupation of otherwise useful space, and with a minimum of weight, in order to minimize any reduction in capacity of the aircraft for carrying cargo or passengers by providing such a crew rest station.

As is illustrated in the drawings, the invention is embodied in an improved crew rest station for an aircraft used for long distance flights, such as the Boeing 777. Referring to Figs. 1-3 and 8, in a presently preferred embodiment, an aircraft 30, such as the Boeing 777 for example, is advantageously provided with a crew rest station 32 located approximately in the aircraft midsection 34, adjacent door number three 36. The crew rest station includes an overhead crew rest portion 38 with forward and aft bunk portions 40 and side bunk portions 42 configured in cross-wise fashion and contoured to occupy a particular location, as for example, against the curved top portion of the hull 43 of the aircraft to fit in the space between the hull and the lowered ceiling of the aircraft, as illustrated in Fig. 6 and further explained below. Access to the crew rest is also preferably provided through an entry vestibule 44 adjacent to forward restrooms 46, and can advantageously replace a lavatory in the center cabin area just aft of the cross aisle at door number three. In a presently

preferred embodiment, the crew rest provides eight bunks that thus can sleep up to eight people in an area of the aircraft that would otherwise be unused. This results in very low intrusion into normally otherwise occupied space such as the cargo bay and the main deck seating area. The crew rest station preferably includes sufficient space to provide all the amenities and emergency equipment that would be necessary to satisfy the flight regulations.

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Referring to Fig. 4, in a presently preferred embodiment, the overhead crew rest portion includes two forward bunks 48, two aft bunks 50, and four side bunks 52. The overhead crew fest portion is preferably formed of a lightweight composite material, such as fiberglass, for example, and can be molded as a single unit for increased strength, so that the unit does not need to be bolted together. Alternatively, the overhead crew rest portion can be formed of modular sections, with aft and forward bunk modules that can be connected together with a central deck module, as well as a desired number of side bunk modules, all preferably formed of molded composite material, such as fiberglass. It should be recognized that a crew rest station of a larger or smaller capacity could also be provided by simply increasing or reducing the number of side bunks, and that a flight crew rest station could be provided at other locations in the aircraft as well, such as a forward flight crew rest station with two bunks, for example. The overhead crew rest portion preferably is ssed by an entry ladder 54 extending up through an entry way 56. It should be pointed out that the typical hoop frame 58 of the aircraft supports and allows for sufficient space for the overhead crew rest portion in otherwise unused space of the aircraft.

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As is more clearly seen in Figs. 5, 6 and 7, the aircraft typically includes a lowered ceiling 60, with space provided above the ceiling for the overhead stowage bins 62, and various types of ducting 64 above the seating 66. The overhead crew rest portion located between the hull and lowered ceiling of the aircraft thus does not impinge upon the seating area or the cargo area 68 of the aircraft.

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Referring to Figs. 9, showing a perspective view of the interior of the overhead crew rest portion shown in Fig. 8, and Fig. 12, the overhead crew rest portion also preferably includes an emergency escape hatch 70. As can be seen in Fig. 9, a main crew rest control panel 72 is also preferably provided, as will be explained

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further below, as well as a cabinet 74 such as for emergency equipment, waste receptacles, and the like.

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The vestibule also economically provides space for a lavatory/vanity area 75, also explained further below, adjacent to the crew rest entry way, a closet space 76, and a folding door 78 to provide a modicum of privacy to the overhead crew rest area, as is illustrated in Figs. 10 and 11.

Now turning to Figs. 13 to 21, the overhead crew rest portion will be explained in greater detail. Fig. 13 highlights the general layout of a right side forward bunk 80 also illustrated in more detail in Figs 14 and 16. Referring to Fig. 14, the overhead crew rest portion includes overhead lighting 82, and each individual bunk includes an entry 84 that can be curtained to provide individual privacy and darkness for each individual bunk even when the overhead lighting is on. Toward the head of the bunk 86 are individual comfort controls 88, allowing for control of lighting and airflow within the bunk area. Fig. 15 illustrates one presently preferred embodiment of the main crew control panel, which can include an intercom phone 90, a call warning light 92, no smoking and seat belt indicators 94, overhead crew rest portion light switches 96, vestibule light switches 98, horn switch 100, and a service outlet 102. A stowage area 104 is also preferably provided, such as for stowing shoes or other personal items.

As is illustrated in Fig. 16, an individual bunk area 106 can have mounted on a vertical side wall 108 such control, emergency and indicator items as a no smoking and seat belt indicator 110, oxygen mask 112, reading light 114, reading light switches 116, air flow nozzle 118, also commonly known in the industry as a gasper, as well as an air intake register 120 for recirculation of cabin air.

With reference to Fig. 17, showing the interior of the overhead crew rest portion, an aisle light 122 is also preferably provided near the crew rest portion deck 123, in a corner bunk non-skid access step 172 preferably having a non-skid surface 173, as is further illustrated in Fig. 21, and the central cabinet may be provided with various types of emergency equipment, such as fire extinguishers 124, further illustrated in Fig. 18. The cabinet may provide for emergency equipment, waste receptacles, and the like, and in one presently preferred embodiment, includes an access panel 126, a night light 128, and an emergency light 130. Other items such as

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a flashlight 132, and emergency oxygen 134 can also be provided.

As shown in Fig. 19, the crew rest portion also preferably provides an overhead panel 135 with an emergency light 136, a smoke detector 138, and a fluorescent light panel 140. In another presently preferred embodiment, the main crew rest control panel, located near the exit sign 142, includes a no smoking, fasten seat belt indicator 144, a smoke warning/decompression warning indicator 146, a smoke detector 148, a low airflow warning chime 150, speaker 152 such as for onboard announcements, and a smoke detection warning horn 154 as well as a horn shutoff switch 156. Test switches 158 can also be provided, such as a test switch for the emergency light switch 160, a test switch for smoke warning indicator 162, and a test switch for decompression warning 164, for example. The control panel may also include smoke detector control panel 168, and centralized sleeping area light controls 170 for the overhead crew rest area.

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The vestibule is further illustrated in Fig. 22, 23 and 24, showing the forward crew lavatory 176, coat closet 178, additional closet space 180, such as for a video control, and the crew rest entry 182. As is shown in Figs. 23 and 24, the lavatory 176 may also include an emergency kick-out panel 183, and referring to Figs. 24 and 25, showing the closet and lavatory space in greater detail, the lavatory typically includes a toilet 184, a sink 186, stowage 188, and other common amenities.

It will be apparent from the foregoing that while particular forms of the invention have been illustrated and described, various modifications can be made without departing from the spirit and scope of the invention. Accordingly, it is not intended that the invention be limited, except as by the appended claims.

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# WHAT IS CLAIMED IS:

1. An aircraft crew rest station for a long distance airline flight, the aircraft having a hull with a curved top portion, a lowered ceiling, and a space therebetween, comprising:

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an overhead crew rest portion contoured to occupy the space between the curved top portion of the hull of the aircraft and the lowered ceiling of the aircraft; and

an entry vestibule providing access to the overhead crew rest portion.

2. The aircraft crew/rest station of Claim 1, wherein said overhead crew rest portion comprises at least one built portion.

3. The aircraft crew rest station of Claim 1, wherein said overhead crew rest portion comprises at least one bunk selected from the group of forward, aft, and side bunk portions.

4. The aircraft crew rest station of Claim 1, wherein said overhead crew rest portion comprises forward, aft, and side bunk portions configured in cross-wise fashion.

5. The aircraft crew rest station of Claim 1, wherein said vestibule comprises a lavatory area.

6./The aircraft crew rest station of Claim 5, wherein said vestibule further comprises a closet.

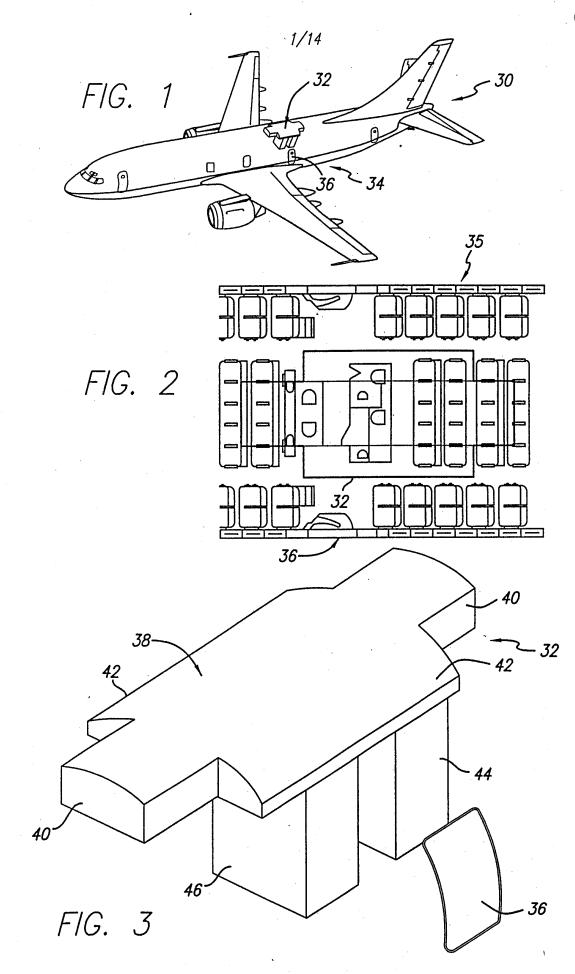
09/947,275

# AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT

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# ABSTRACT OF THE DISCLOSURE

The aircraft crew rest station for a long distance airline flight includes an overhead crew rest portion contoured to occupy the space between the curved top portion of the hull of the aircraft and the lowered ceiling of the aircraft, and an entry vestibule providing access to the overhead crew rest portion. The overhead crew rest portion includes contains one or more forward, aft, and side bunk portions. The crew rest station can be located approximately in the aircraft midsection. In one presently preferred embodiment, the overhead crew rest portion comprises forward, aft, and side bunk portions configured in cross-wise fashion. The vestibule also provides a lavatory area, as well as a closet space.



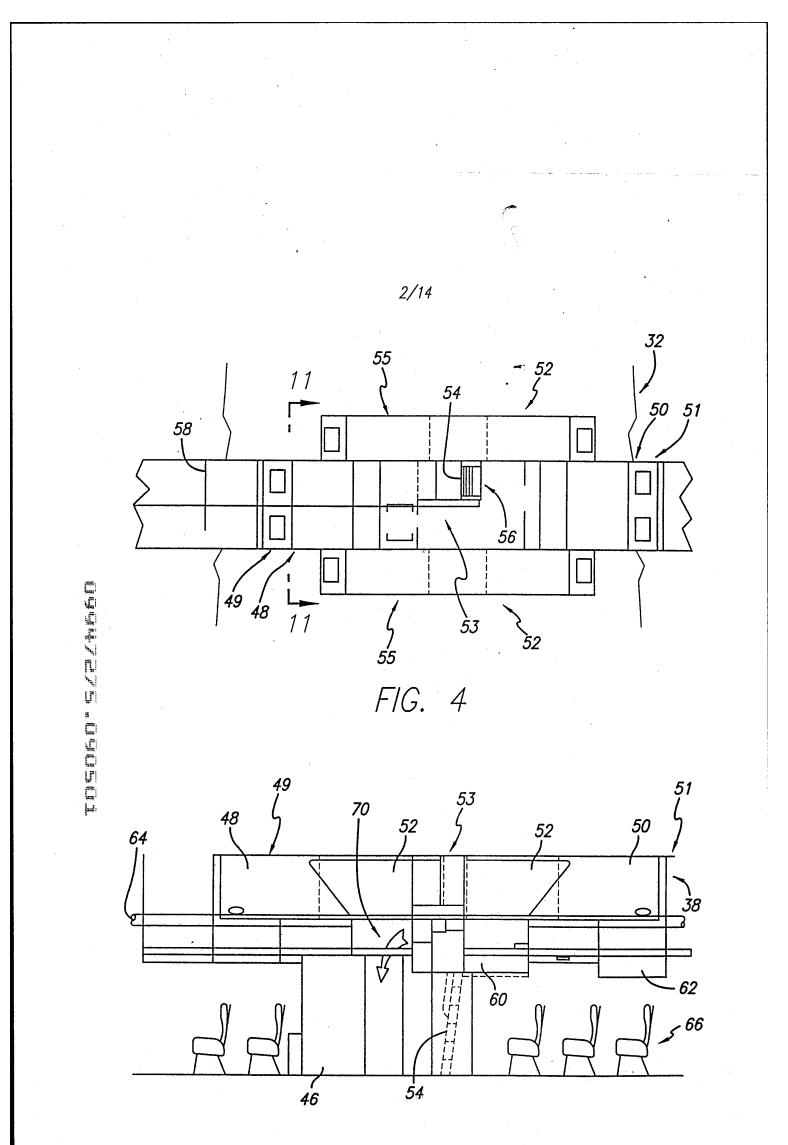
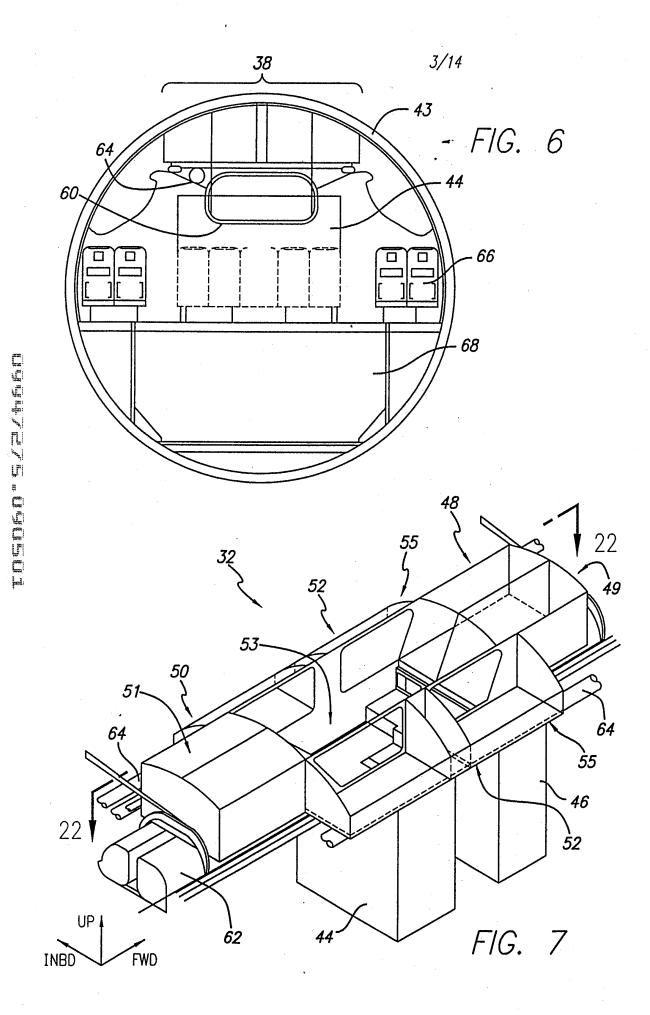
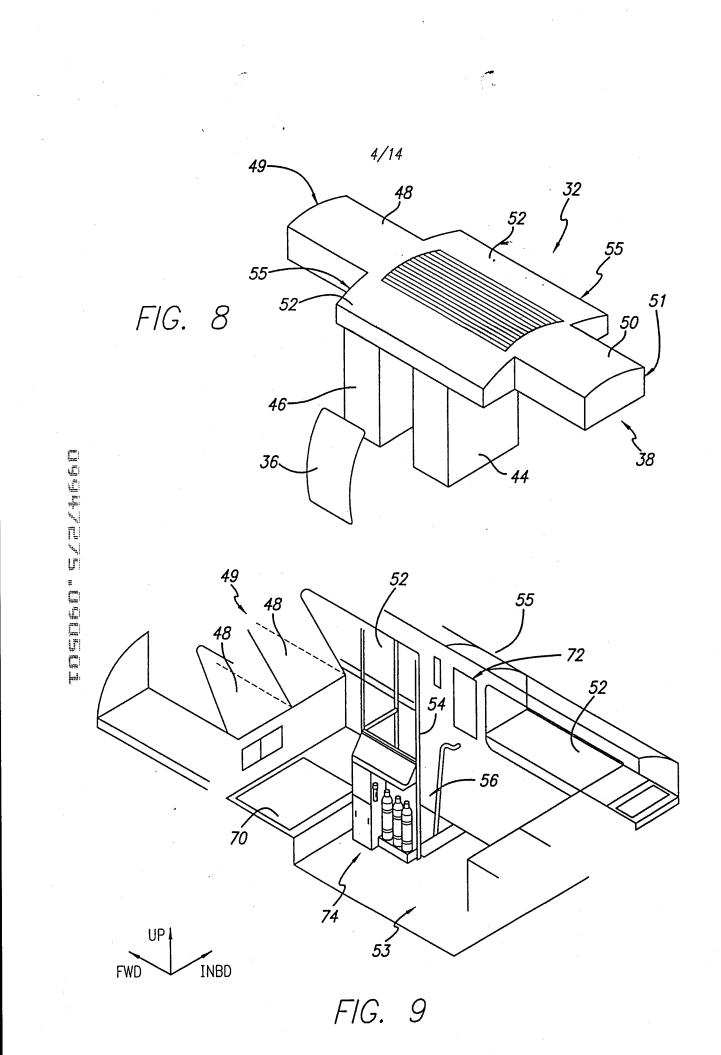
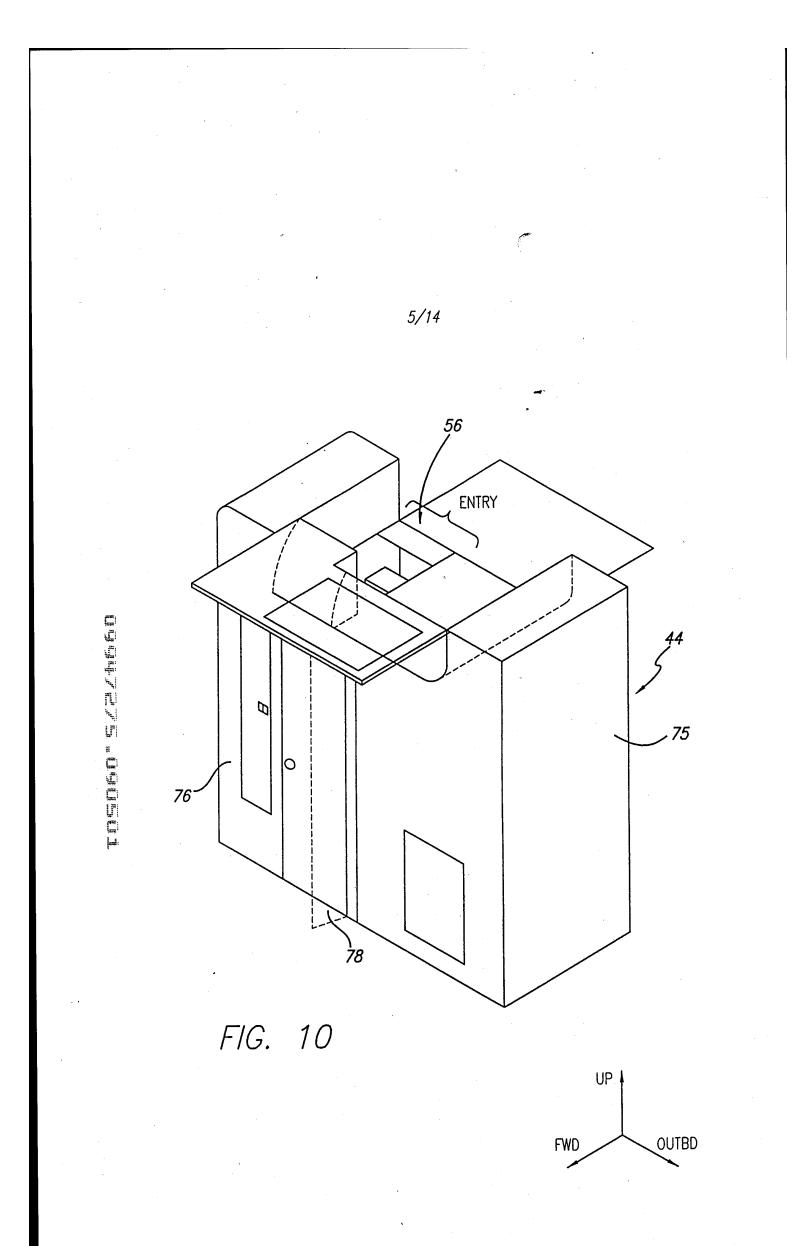
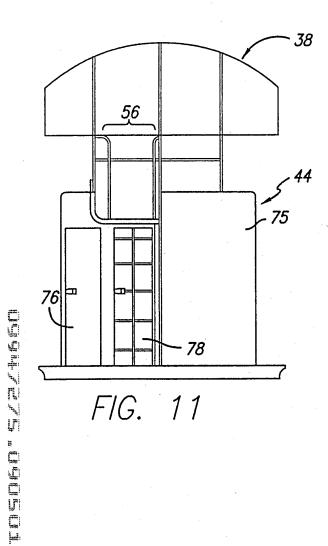


FIG. 5

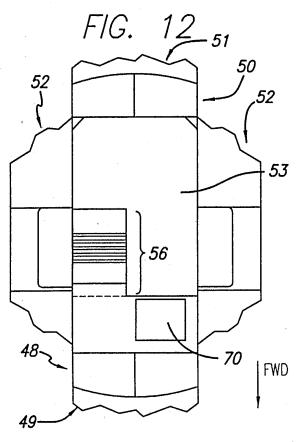


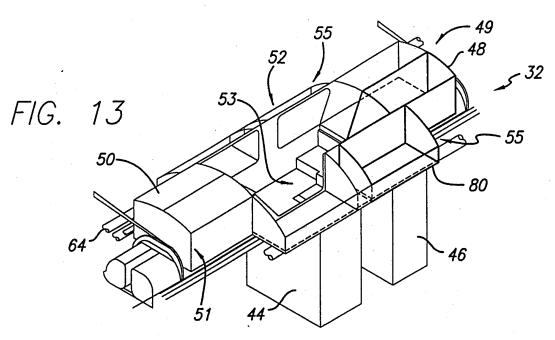


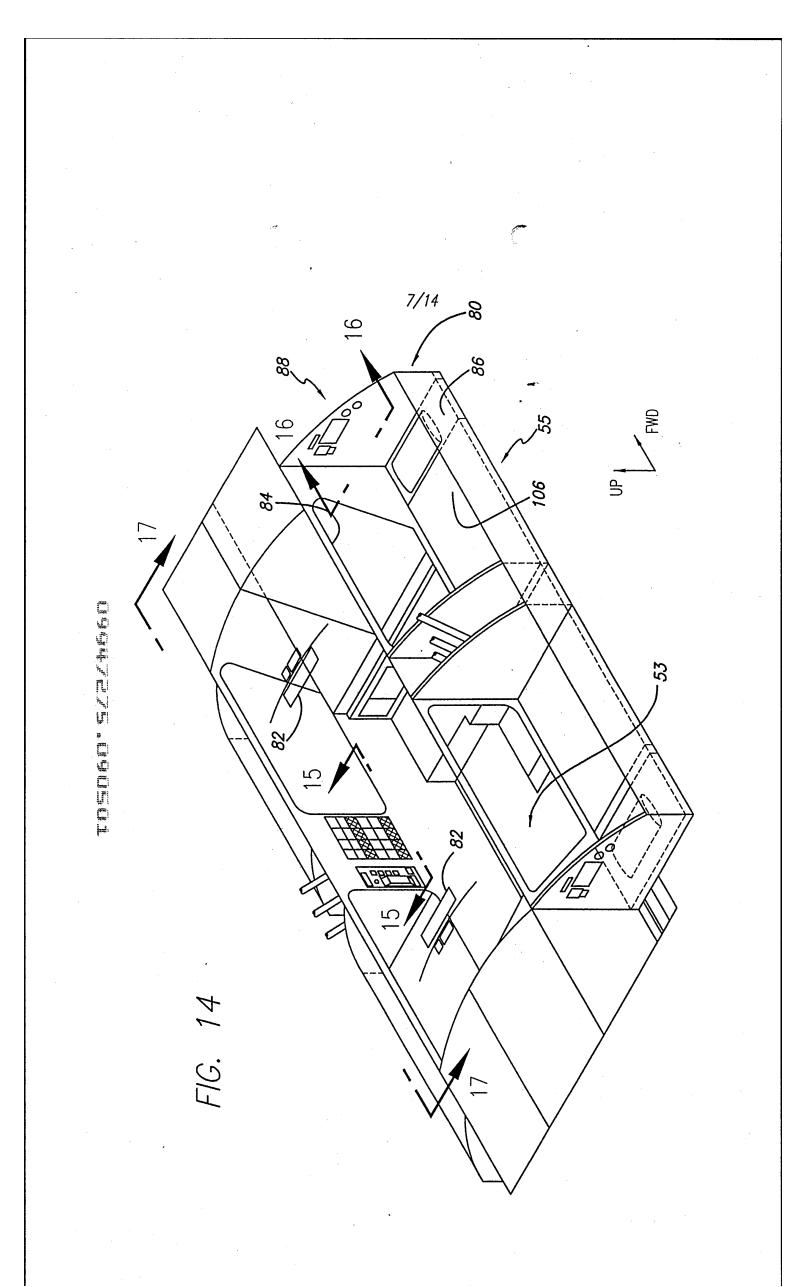


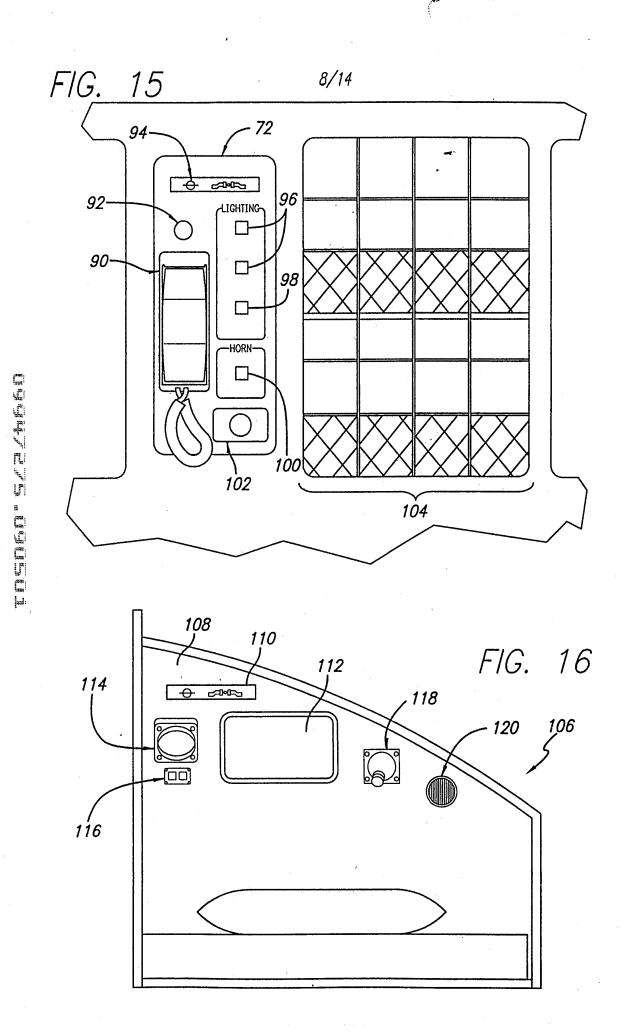


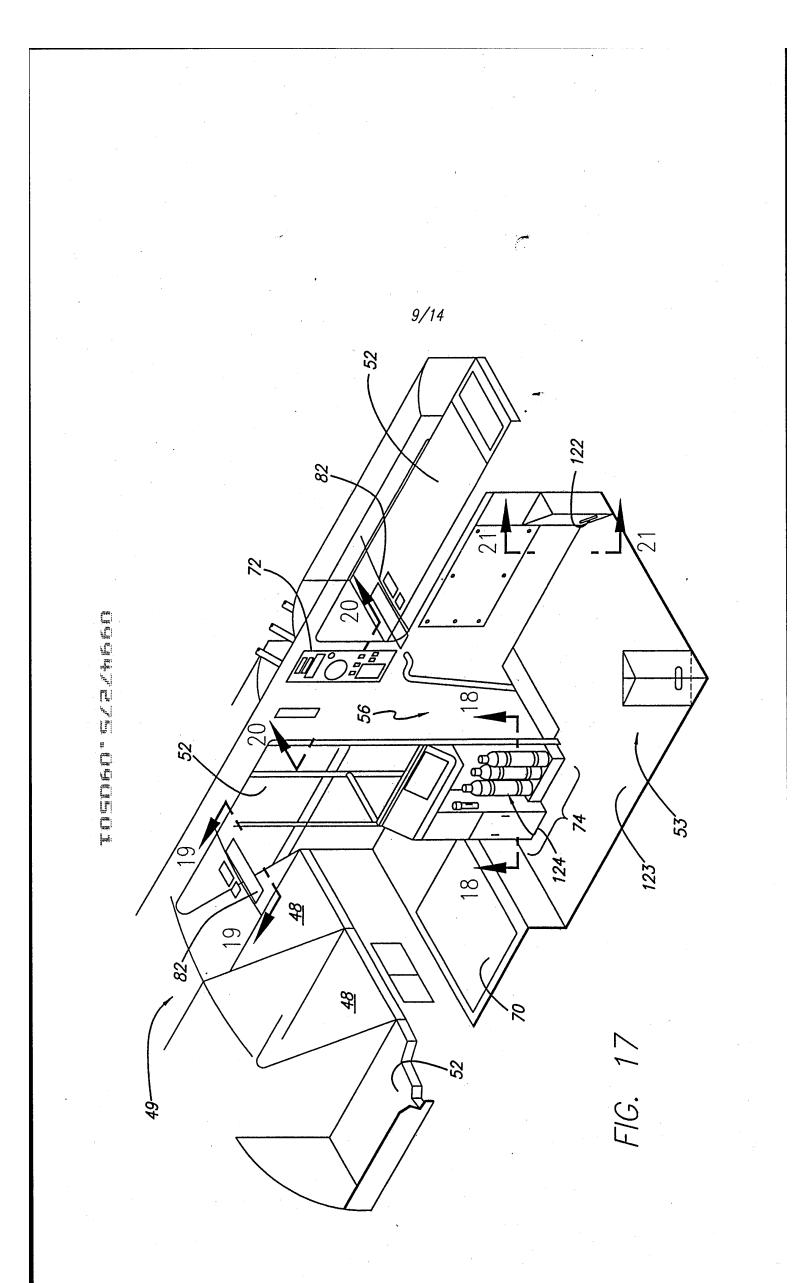
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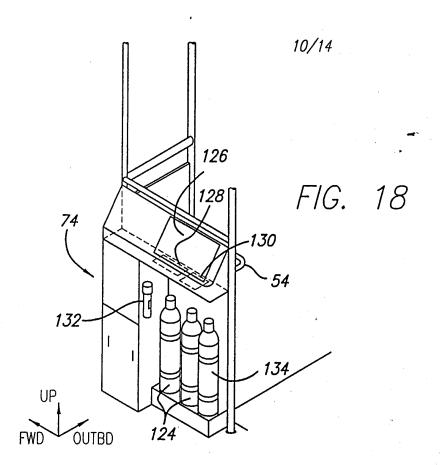


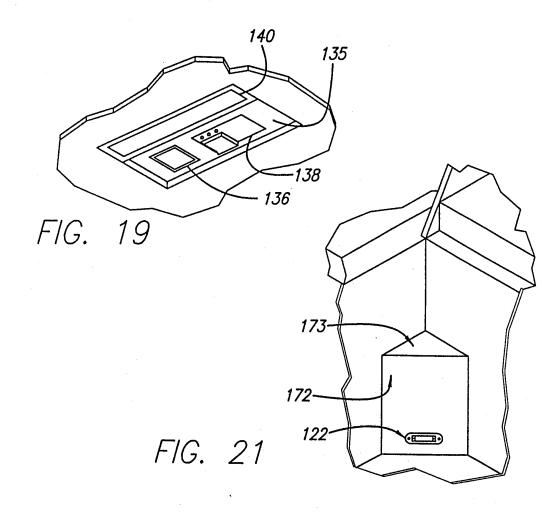


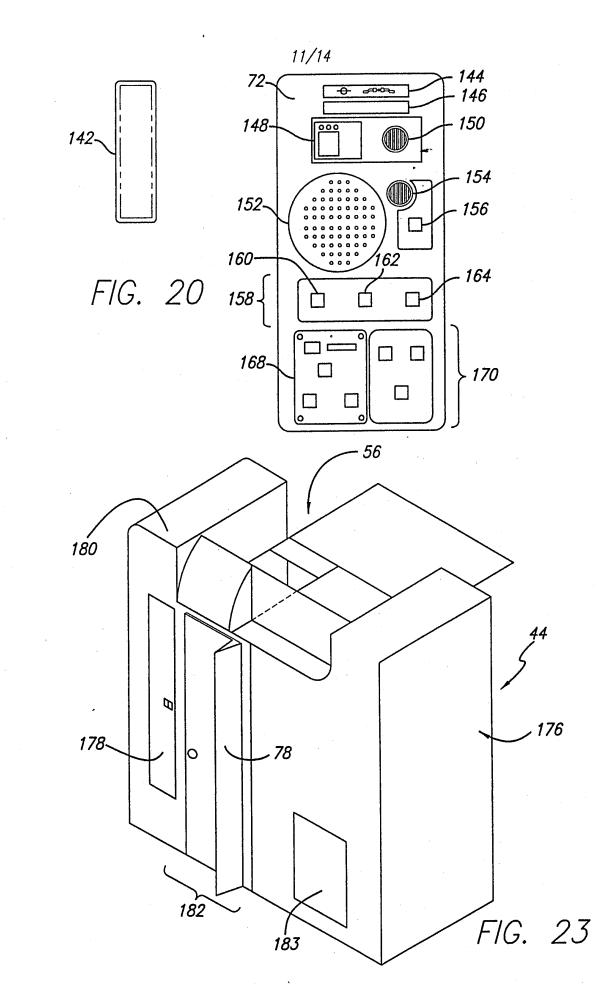




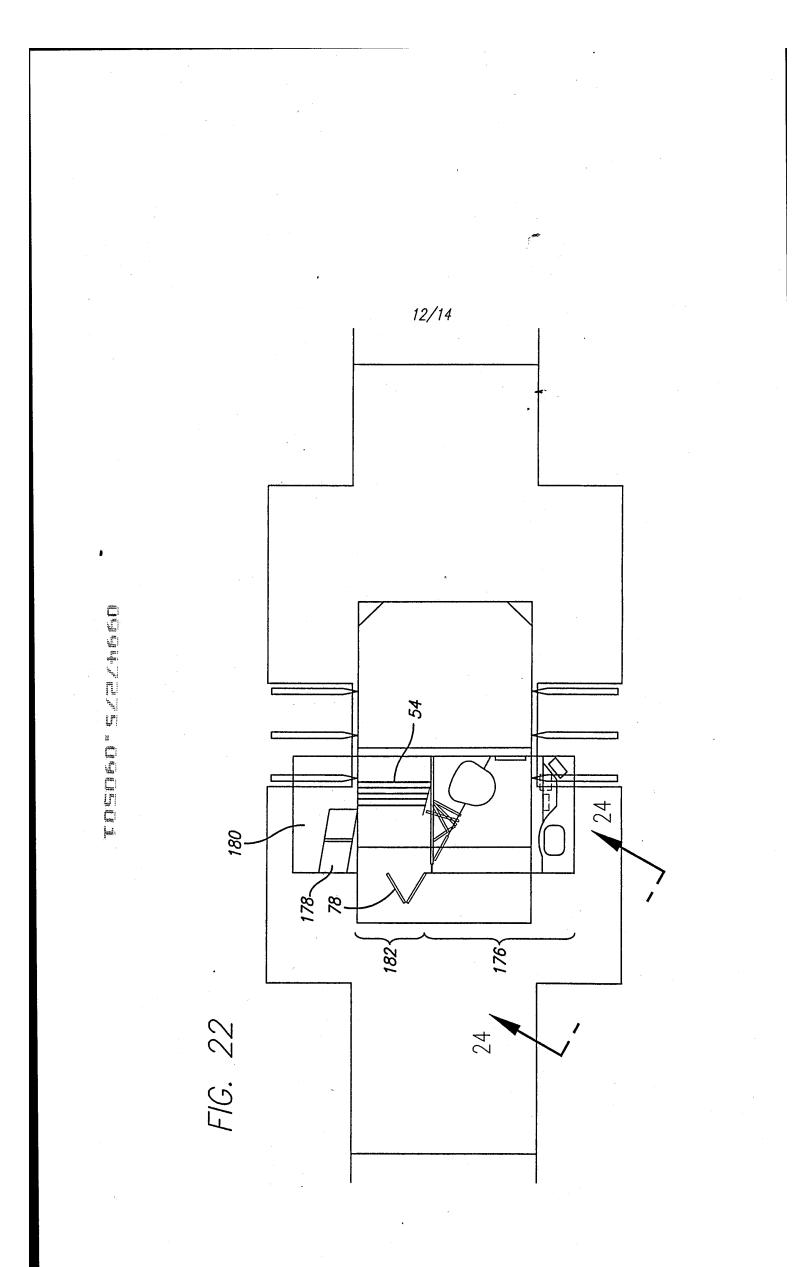


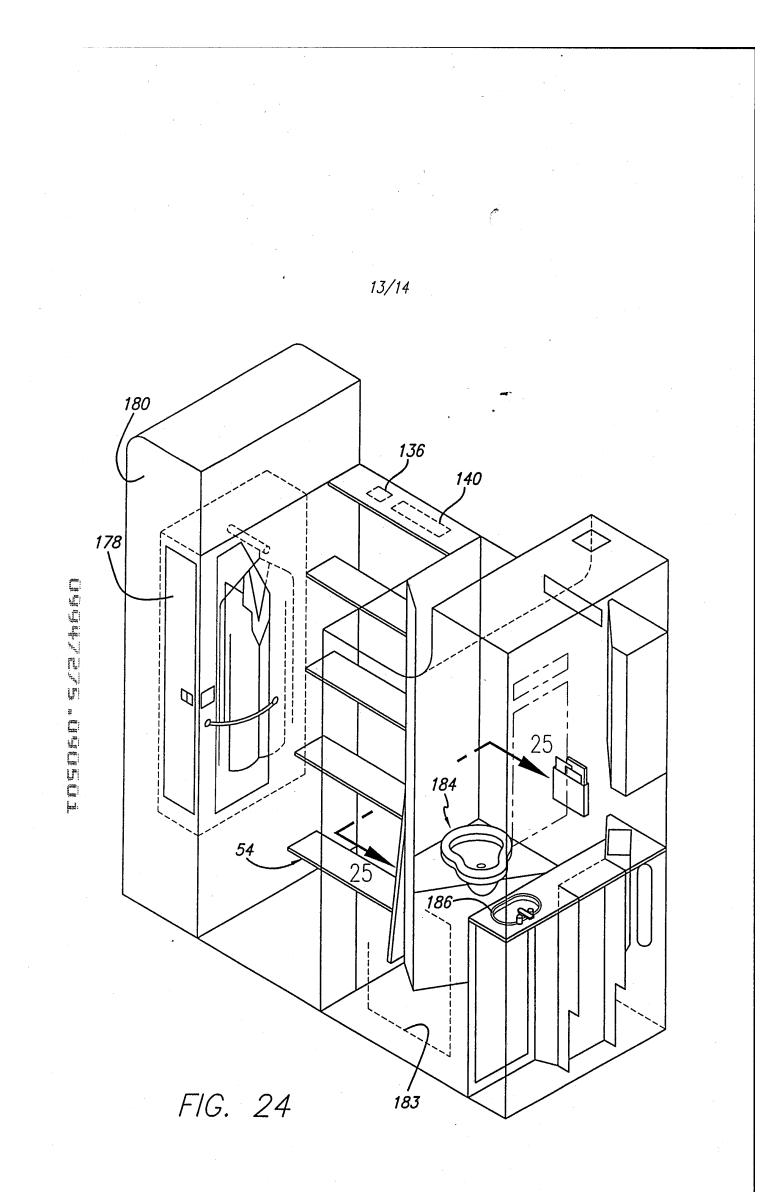


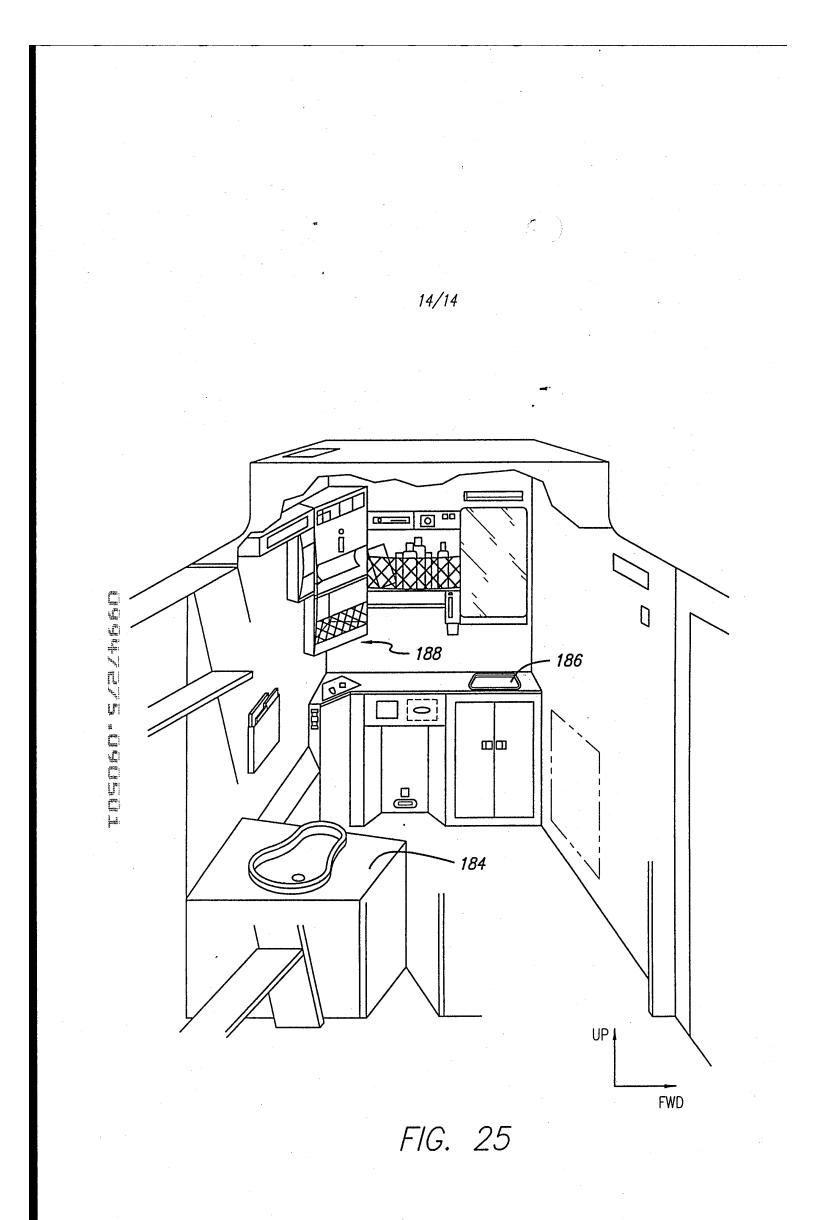


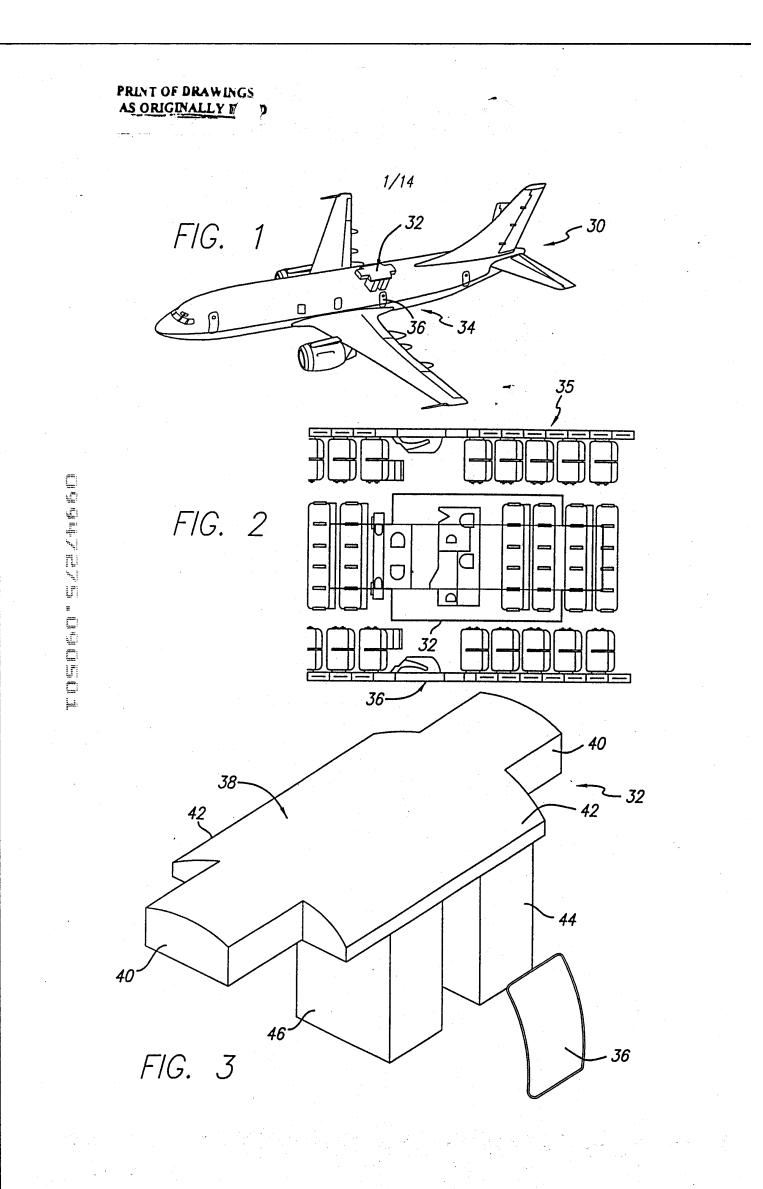


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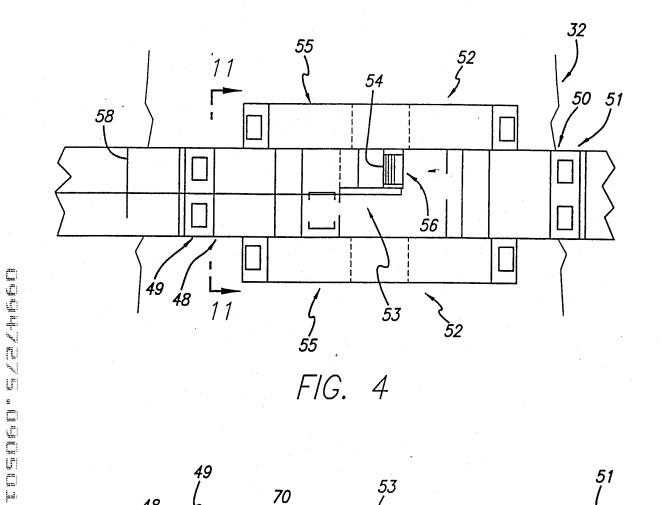








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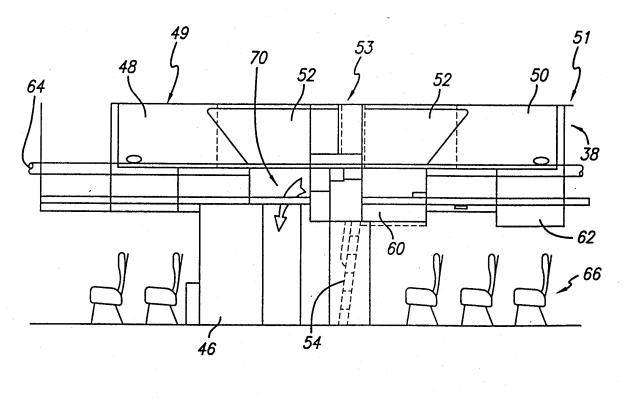
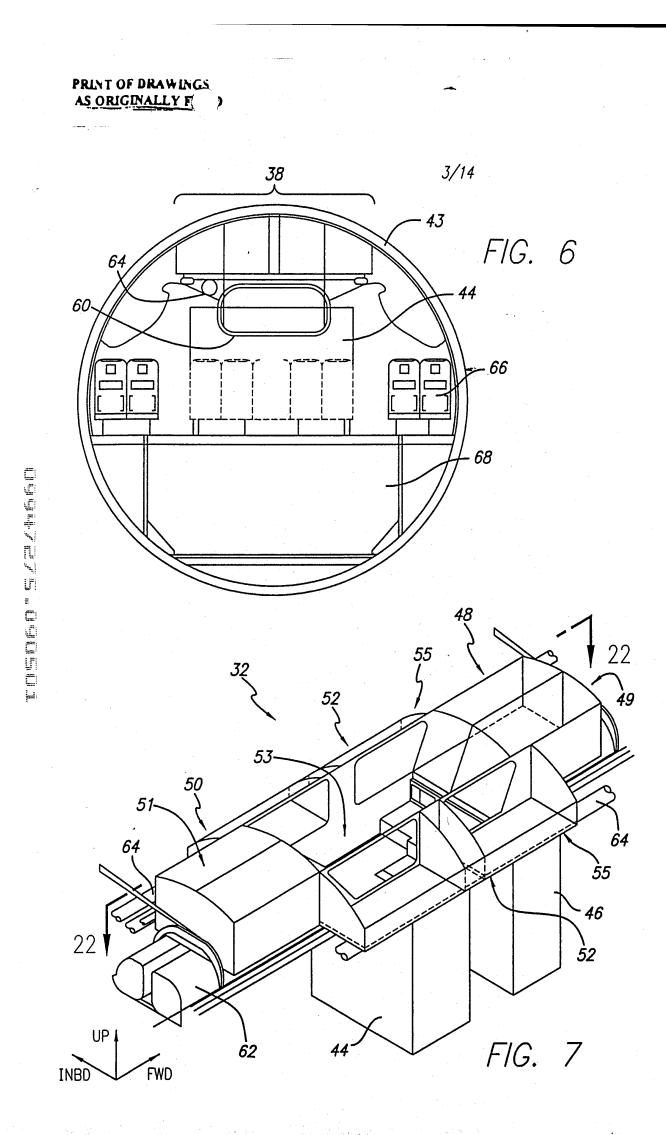
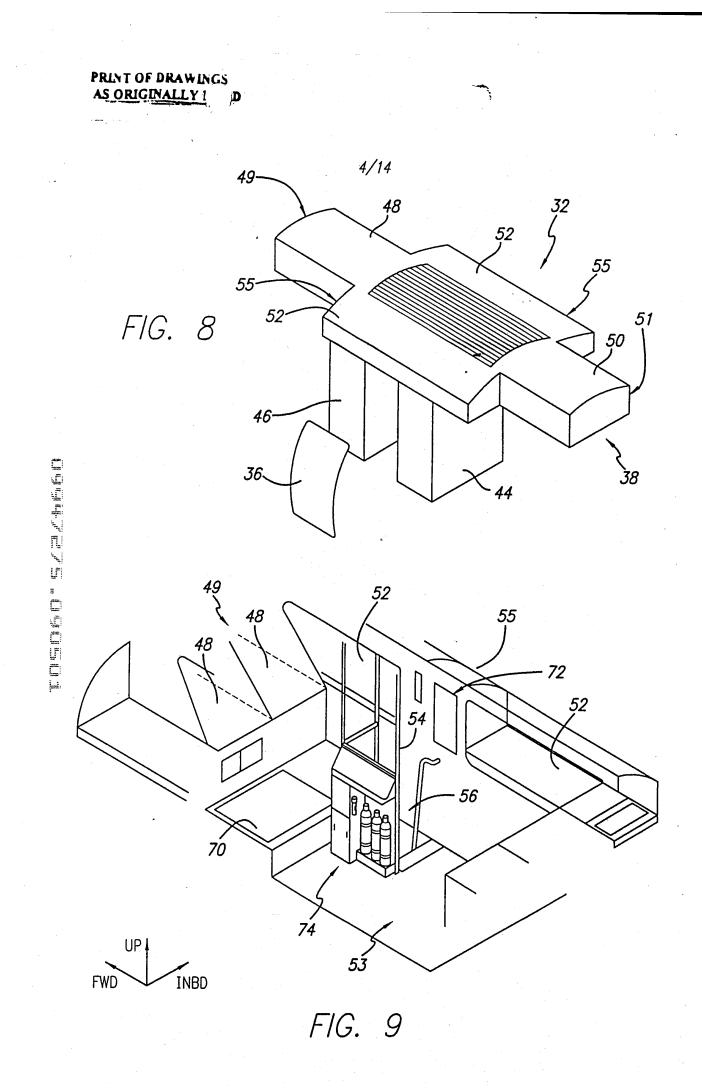


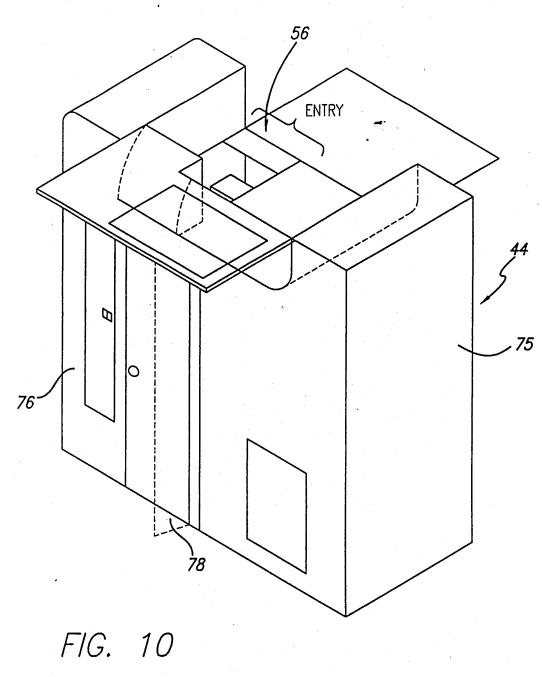
FIG. 5





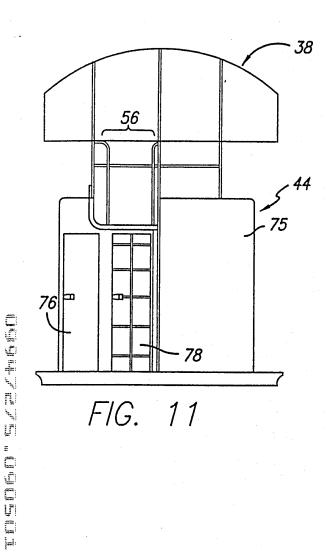
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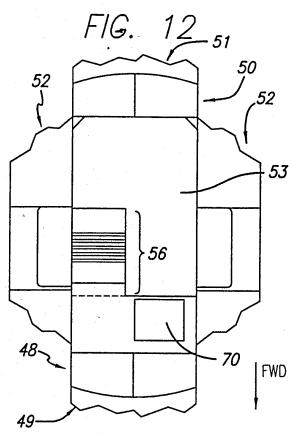




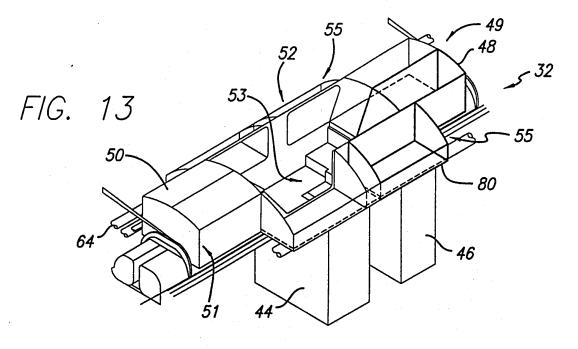
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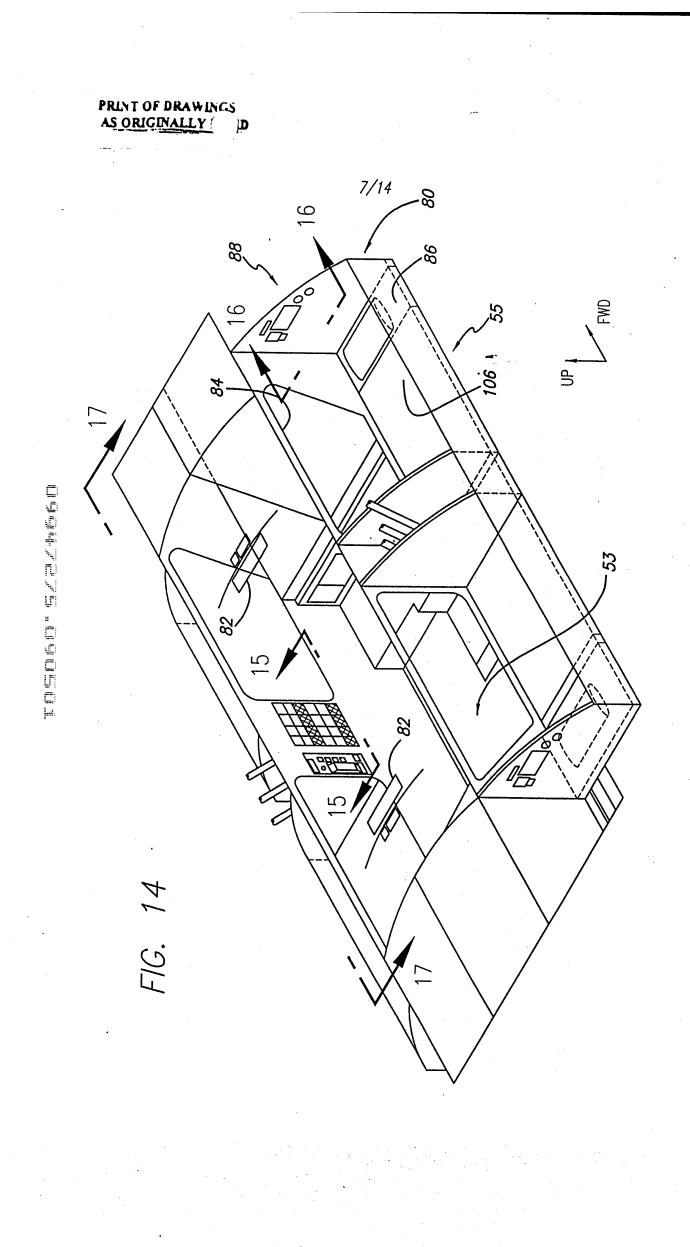
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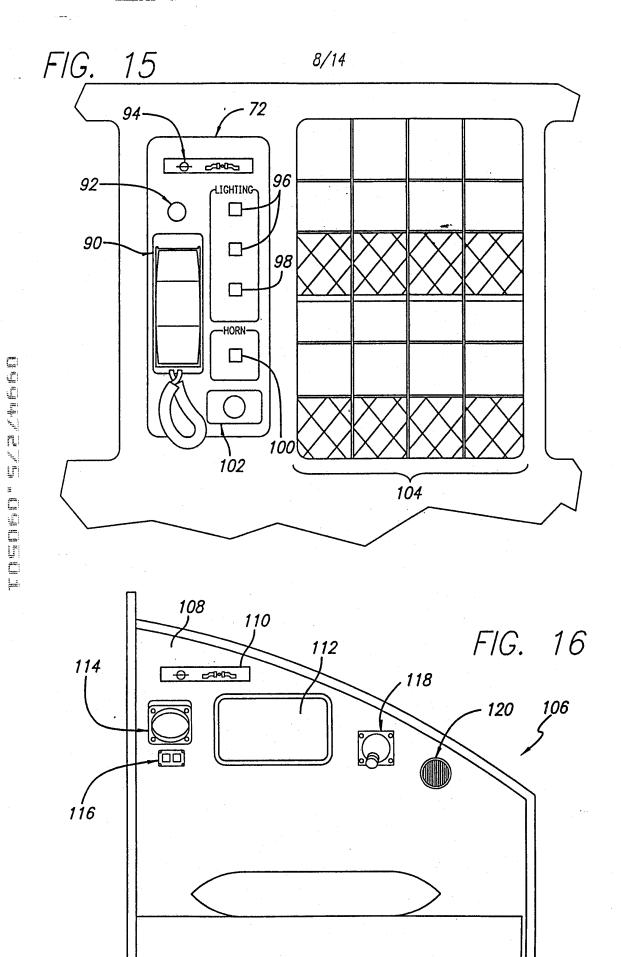


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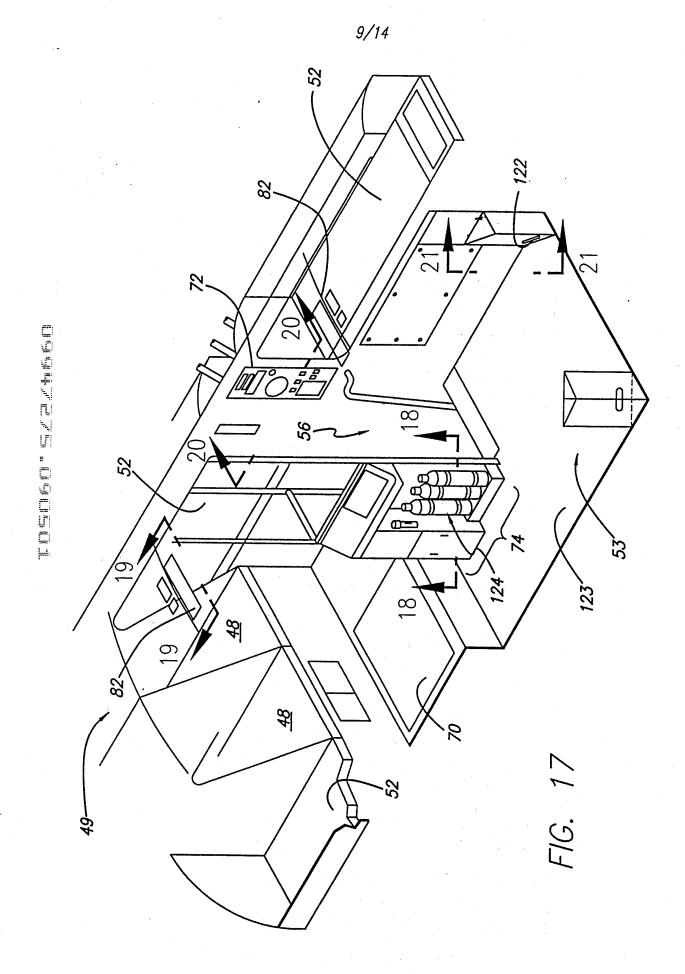


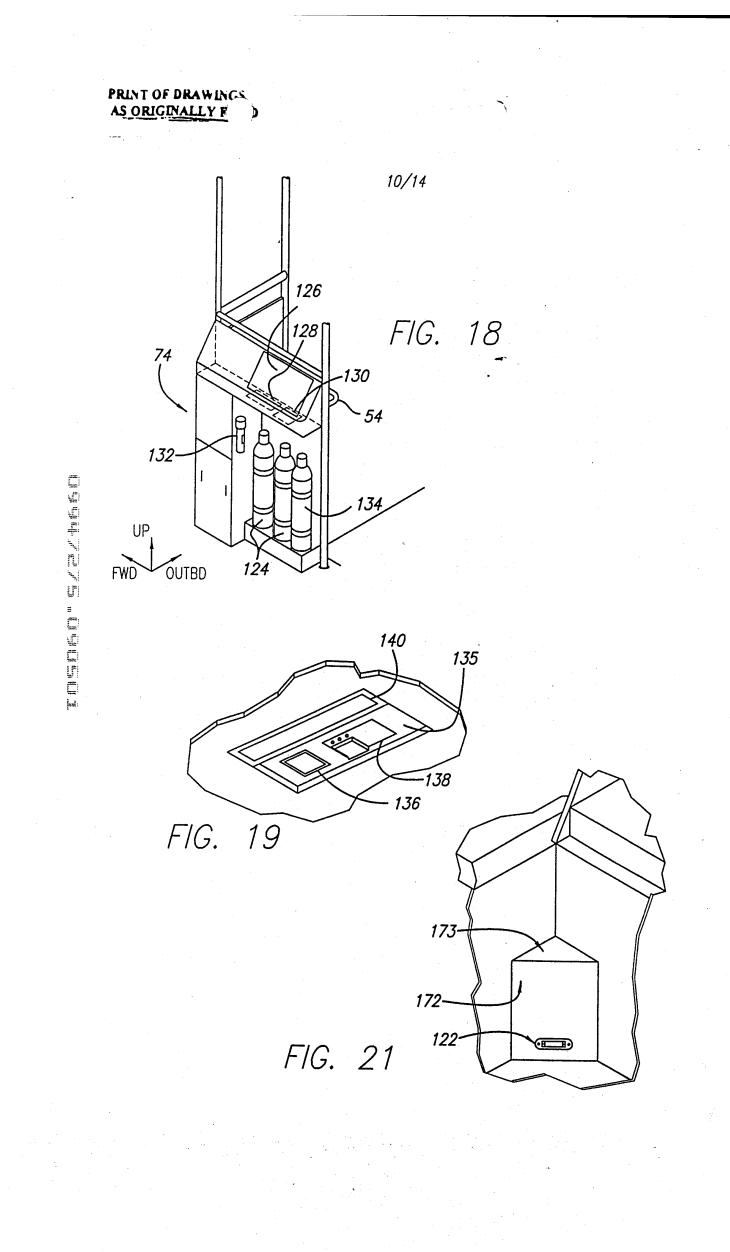


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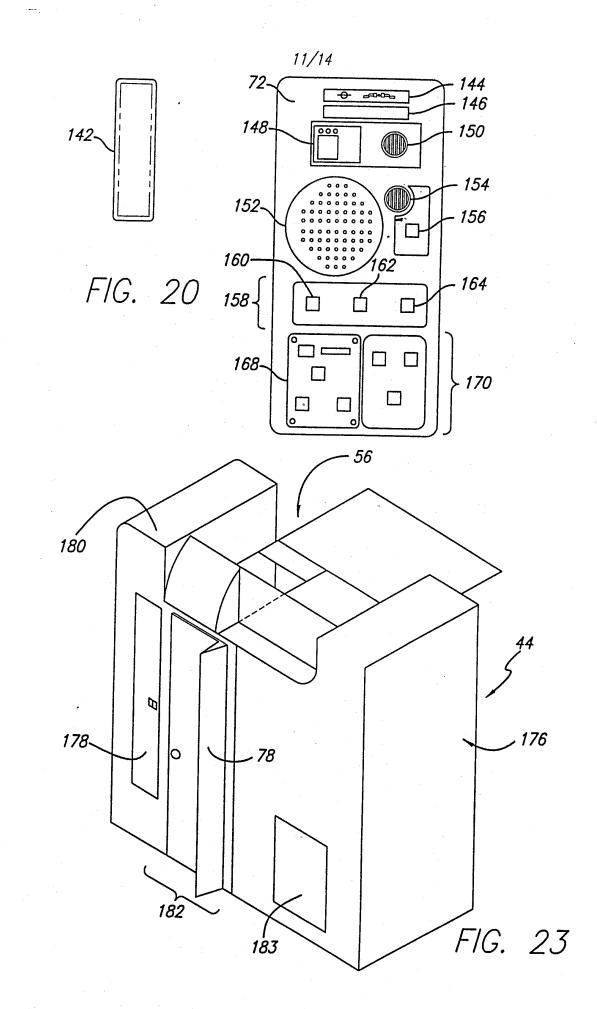


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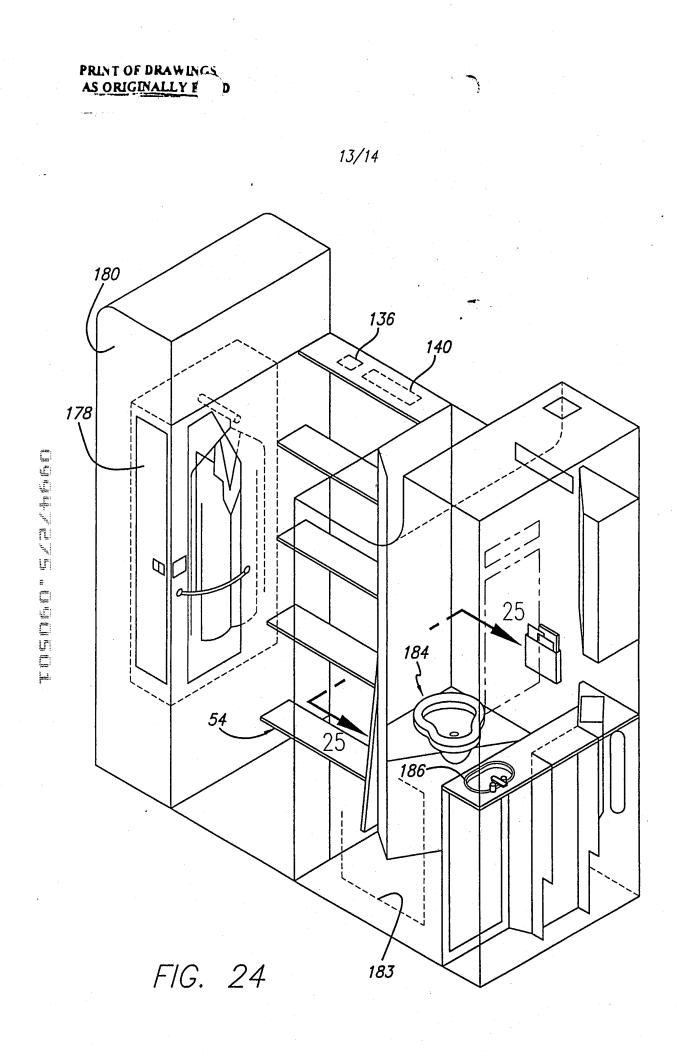


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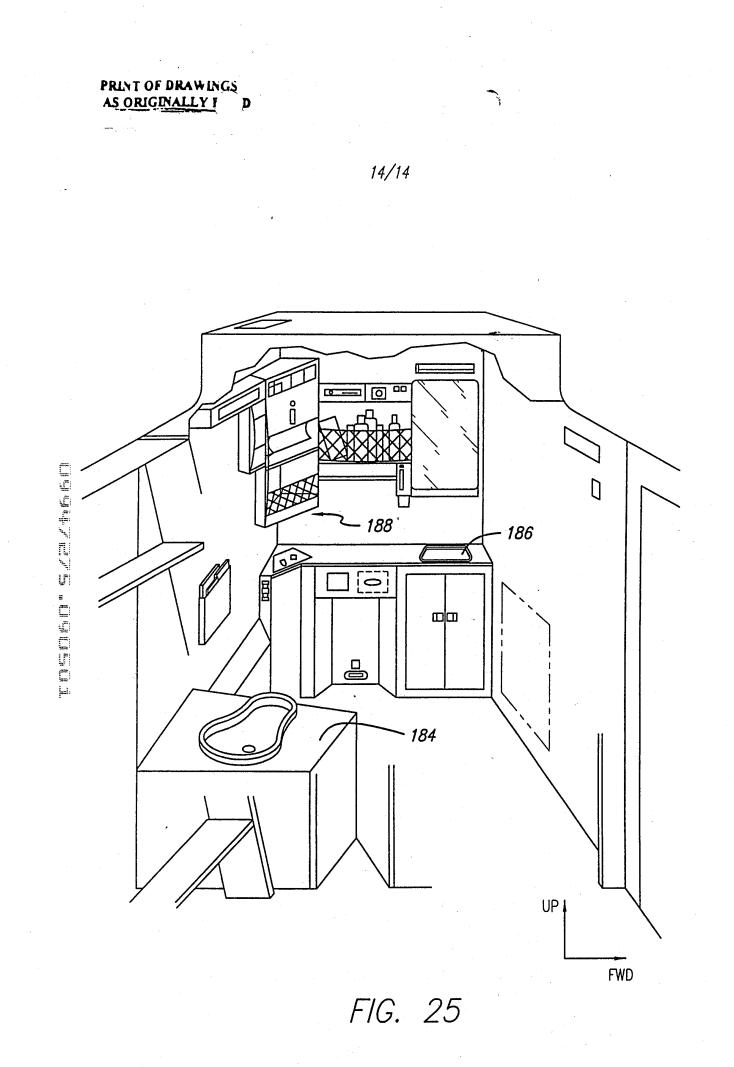


Petitioner C&D Zodiac, Inc. – Exhibit 1009 - Page 41

PRINT OF DRAWINGS AS ORIGINALLY I D 12/14 54 24 180 78 78-182< 176 FIG. 22 24



Petitioner C&D Zodiac, Inc. – Exhibit 1009 - Page 43



Docket No. BEAER:49607 Page 1 of 3

### DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my

I believe I am the original and first inventor of the subject matter which is efaimed and for which a patent is sought on the invention entitled AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT the specification of which (check one)

\_\_\_\_\_ is attached hereto \_\_\_\_\_ was filed on December 18, 1998 Application Serial No. 09/216,446 and was amended on (or amended through) \_\_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above.

I acknowledge the dary to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Sec. 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Sec. 119 (a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Country

Priority Claimed

<u>NONE</u> Number

Day/Month/Year filed

Yes No

name.

#### Docket No. BEAER:49607 Page 2 of 3

I hereby claim the benefit under Title 35, United States Code, Sec. 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Sec. 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Sec. 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

Status

<u>NONE</u> Appln. Serial No.

Filing Date

(patented, pending, abandoned)

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 issued thereon.

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

RICHARD A. BARDIN, Reg. No. 20,365, CRAIG B. BAILEY, Reg. No. 28,786, RICHARD B. CATES, Reg. No. 36,100, I. MORLEY DRUCKER, Reg. No. 19,751; PAUL Y. FENG, Reg. No.35,510; JOHN K. FITZGERALD, Reg. No. 38,881, JOHN V. HANLEY, Reg. No. 38,171; JAMES JUO, Reg. No. 36,177; GILBERT G. KOVELMAN, Reg. No. 19,552, PAMELA G. MAHER, Reg. No. 40,712; THOMAS H. MAJCHER, Reg. No. 31,119, JOHN S. NAGY, Reg. No. 30,664, DAVID G. PARKHURST, Reg. No. 29,422, JAMES W. PAUL, Reg. No. 29,967, RONALD E. PEREZ, Reg. No. 36,891; ELLSWORTH R. ROSTON, Reg. No. 16,310; THOMAS A. RUNK, Reg. No. 30,679; DAVID S. SARISKY, Reg. No. 41,288; and HOWARD N. SOMMERS, Reg. No. 24,138.

Direct all telephone calls to James W. Paul, Esq., at telephone no. 310-824-5555.

Docket No. BEAER:49607 Page 3 of 3

Address all correspondence to:

James W. Paul, Esq., FULWIDER PATTON LEE & UTECHT, LLP 10877 Wilshire Boulevard Tenth Floor Los Angeles, California 90024

Full name of first inventor: BRIAN W. MOORE

Inventor's signature: B\_WMoore

Date: <u>1-25</u>, 1999

Residence: Mukilteo, Washington

Citizenship: U.S.A.

Post Office Address: 1392 Crownmill Avenue Mukilteo, Washington 98275

126215.1

#### **ASSIGNMENT**

This Assignment, made by BRIAN W. MOORE of Mukilteo, Washington, Assignor, to BE INTELLECTUAL PROPERTY, INC., Assignee, having a place of business at 1400 Corporate Center Way, Wellington, Florida 33414.

WHEREAS, Assignor has invented a new and useful AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT, for which an application for United States Letters Patent was filed on December 18, 1998, and has Serial No. 09/216,446; and

WHEREAS, Assignor believes himself to be the original and first inventor of the invention disclosed and claimed in said application for Letters Patent; and

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WHEREAS, Assignee desires to acquire by formal, recordable assignment the entire right, title and interest in and to said invention, said application Serial No. 09/216,446 and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) and of other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee, the entire right, title and interest in and to said invention, said application Serial No. 09/216,446 and any Letters Patent that may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise.

-1-

Docket No. BEAER:49607

Further, Assignor agrees that, upon request and without further compensation, but at no expense to Assignor, his legal representatives and assigns, will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording or maintaining the title of Assignee, its successors and assigns, to said invention, said application and any Letters Patent granted for said invention in the United States and throughout the world.

Assignor represents and warrants that he has not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for said invention, whether on said application Serial No. 09/216,446 or on any subsequently filed division, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

Docket No. BEAER:49607

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IN WITNESS WHEREOF, Assignor has executed this Assignment on the dates

written hereinbelow.

ASSIGNOR:

Date: <u>1-25</u>, 1999

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BRIAN W. MOORE

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CALIFORNIA ALL-PURPOSE ACK	NOWLEDGMENT	· · · · · · · · · · · · · · · · · · ·
State of <u><u>Mashingfor</u> County of <u><u>Kohomus</u></u> On <u>1-25-99</u>before me, <u>Belt</u> DATE NAME TIT</u>	L. J. SNell Notary. LEOF OFFICER - E.G., JANE DOE, NOTARY PUBLIC.	OPTIONAL SECTION     CAPACITY CLAIMED BY SIGNER     Though statute does not require the Notary     to fill in the date below, doing so may prove     invaluable to persons relying on the         document.     INDIVIDUAL
personally appeared <u>BRIAN</u> personally known to me -OR- OIS J. SNO NOTARY NOTARY NOTARY NOTARY NOTARY NOTARY NOTARY NOTARY	proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/ their authorized capacity(ies), and that by his/her/their signature(s) on the instrument is the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. WITNESS my hand and official seal.	CORPORATE OFFICER(S)
THIS CERTIFICATE MUST BE ATTACHED TO THE DOCUMENT DESCRIBED AT RIGHT: Though the data requested is not required by law, I could prevent (reuchent restachment of this form,	OPTIONAL SECTION TITLE OR TYPE OF DOCUMENT NUMBER OF PAGES DATE OF DOCUMENT SIGNER(S) OTHER THAN NAMED ABOVE	r

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Docket No. BEAER:49607

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1-31-92 02-18-1	999 U.S. DEPARTMENT OF COMMERCE HEET Patent and Trademark Office
Man Dia.ga	BOCKELING, DEACH:4900/
To the Honorable Commissioner of Pate. 1009684	426 attached original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
BRIAN W. MOORE	Name: BE INTELLECTUAL PROPERTY, INC.
Additional name(s) of conveying party(ies) attached? 🔲 Yes X No	Internal Address:
3. Nature of Conveyance:	Street Address: <u>1400 CORPORATE CENTER WAY</u>
X Assignment   Image: Merger     Image: Security Agreement   Image: Change of Name     Image: Other   Other	City: <u>WELLINGTON</u> State: <u>FL</u> Zip: <u>33414</u>
Execution Date:	Additional name(s) & address(es) attached?
<ul><li>4. Application number(s) or registration numbers(s):</li><li>If this document is being filed together with a new application</li></ul>	n, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
Serial No. 09/216,446	
Additional numbers attack	ned? Yes X. No.
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total No. of applications and patents involved
Name:	
Internal Address: <u>ATTN: JAMES W. PAUL, ESQ.</u>	7. Total fee (37 CFR 3.41):\$ 40.00 E
Street Address: 10877 WILSHIRE BLVD.	
10TH FLOOR	${\sf X}$ Authorized to be charged to deposit account
City: LOS ANGELES State: CA ZIP 90024	${\sf X}$ Any deficiencies in enclosed fees
	8. Deposit account number: 06-2425
	(Attach duplicate copy of this page if paying by deposit account)
	THIS SPACE
9. Statement and signature.	
To the best of my knowledge and belief, the foregoing information is true and o	correct and any attached copy is a true copy of the original document.
David G. Parkhurst - Reg. No. 29,422	L. Tarkhung February 9. 1999
Name of Person Signing	Signature Date
OMB No. 0651-0011 (exp. 4/94)	Total number of pages including cover sheet: 4
Do not detach Mail documents to be recorded with required cover sheet inform	n this portion ation to:
Commissioner of Pate Box Assig Washington,	ents and Trademarks gnments
Public burden reporting for this sample cover sheet is estimated to average abc document and gathering the date needed, and completing and reviewing the sampl and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D Project, (0651-0011), 20	but 30 minutes per document to be recorded, including time for reviewing the e cover sheet. Send comments regarding this burden estimate to the U.S. Patent D.C. 20231, and to the Office of Management and Budget. Paperwork Reduction
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MAY 10, 1999

PTAS FULWIDER PATTON LEE & UTECHT, LLP DAVID G. PARKHURST ATTN: JAMES W. PAUL, ESQ. 10877 WILSIRE BLVD. 10TH FLOOR LOS ANGELES, CA 90024

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

100968426A

MAY 1 9 1999

Beaer 49607 RECEIVED UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT FULWIDER PATTONICE THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON GETES THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISEON FOR A SOUTH AS A SO THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. LEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/12/1999

REEL/FRAME: 9757/0248 NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR: MOORE, BRIAN W.

DOC DATE: 01/25/1999

ASSIGNEE: BE INTELLECTUAL PROPERTY, INC. 1400 CORPORATE CENTER WAY WELLINGTON, FLORIDA 33414

SERIAL NUMBER: 09216446 PATENT NUMBER:

FILING DATE: 12/18/1998 ISSUE DATE:

KIMBERLY WHITE, EXAMINER ASSIGNMENT DIVISION. OFFICE OF PUBLIC RECORDS

PATENT

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in in envelope addressed to: BOX NON-FEE AMENDMENT, Commissioner for Parints, Washington, D.C. 20231 on <u>September 5, 2001</u>.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

) )

In re the application of

**BRIAN MOORE** 

James W. Paul, Reg. No. 29,967

Serial No.

Filed: (Concurrently herewith)

For: AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT Prior Examiner: Galen Barefoot

Prior Group Art Unit: 3644

Docket No. BEAER:58327

EXPRESS MAIL # EL691915311US

Los Angeles, California Date: September 5, 2001

#### PRELIMINARY AMENDMENT

BOX NON-FEE AMENDMENT Commissioner for Patents Washington, D.C. 20231

Dear Sir:

This Preliminary Amendment is being filed concurrently with a Continuation Application being filed under 37 CFR 1.53(b) based upon Serial No. 09/649,505 filed August 28, 2000, which is a Continuation of 09/216,446 filed December 18, 1998, now Patent No. 6,182,926. Please enter the following amendments prior to examination of the application. IN THE SPECIFICATION:

At page 1, before "BACKGROUND OF THE INVENTION:" please insert: puter Related Applications:

This is a continuation of Serial No. 09/649,505, filed August 28, 2000, which is a continuation of Serial No. 09/216,446 filed December 18, 1998, now Patent No.

6,182,926.

claims:

5

Serial No.

IN THE CLAIMS:

Please cancel Claims 1-6, without prejudice, and add the following new

(New) In an aircraft crew rest station for a long distance airline flight, the aircraft having a hull with a curved top portion, a lowered ceiling, a space therebetween, and an overhead crew rest portion contoured to occupy the space between the curved top portion of the hull of the aircraft and the lowered ceiling of the aircraft, said space overlying a passenger seating area within the hull of the aircraft, said space further separated from said passenger seating area by said ceiling over said passenger seating area, the improvement comprising:

a central entry way disposed in said overhead crew rest portion; and

Serial No.

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a central entry vestibule connected to said passenger seating area and providing direct access to said central entry way of said overhead crew rest portion.

(New) The aircraft crew rest station of Claim, further comprising a forward bunk portion forward of said central entry way and disposed in said overhead crew rest portion.

(New) The aircraft crew rest station of Claim, further comprising an aft bunk portion aft of said central entry way and disposed in said overhead crew rest portion.

10. (New) The aircraft crew rest station of Claim, further comprising a side bunk portion adjacent to said central entry way and disposed in said overhead crew rest portion.

M. (New) The aircraft crew rest station of Claim , further comprising a forward bunk portion forward of said central entry way and disposed in said overhead crew rest portion; and

Serial No.

an aft bunk portion aft of said central entry way and disposed in said overhead crew rest portion.

(New) The aircraft crew rest station of Claim 14, wherein said overhead crew rest portion further comprises side bunk portions adjacent to said central entry way and disposed in said overhead crew rest portion, and said forward, aft, and side bunk portions are configured in cross-wise fashion.

12. (New) The aircraft crew rest station of Claim, wherein said central entry vestibule further comprises a lavatory area.

14. (New) The aircraft crew rest station of Claim, wherein said central entry

vestibule further comprises a closet.

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1.2

Serial No.

#### <u>REMARKS</u>

In light of the foregoing amendments, favorable consideration of the application is respectfully requested.

5

Respectfully submitted, FULWIDER PATTON LEF & UTECHT, LLP James W. Paul Reg. No. 29,967

JWP/DGP:sn

Howard Hughes Center 6060 Center Drive, Tenth Floor Los Angeles, California 90045 Telephone No. (310) 824-5555 Facsimile No. (310) 824-9696

PATEN'

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on October 11, 1999



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In re the application of

Brian Moore

Serial No. 09/216,446

Filed: December 18, 1998

For: AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT Examiner:

Group Art Unit: 3641

Docket No. BEAER-49607

October 11, 1999 Los Angeles, California

#### INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Pursuant to the duty of disclosure and 37 C.F.R. § 1.97(b), enclosed is Form

PTO/SB/08A listing art which may be material to patentability of the invention, along with copies of the references listed therein.

153155.1

Serial No. 09/216,446

PATENT

It is believed that these references will be helpful during examination of the

application, and it is believed that no fee is due in connection with this paper.

2

Respectfully submitted,

FULWIDER PATTON LEE & UTECHT, LLP

David G. Parkhurst, Registration No. 29,422

DGP:mem

Enclosures:

Form PTO/SB/08A Twenty References Return Postcard

10877 Wilshire Boulevard Tenth Floor Los Angeles, California 90024 Tel. No.: (310) 824-5555 Fax No.: (310) 824-9696

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Notice of References Cited

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Part of Paper No. 7

Please acknowledge receipt of the attached Information Disclosure Statement (in duplicate); one page of Form PTO-FB-A820; and a copy of the reference cited thereon; by affixing hereon the Patent Office date stamp and returning this card to our office.

In re application	on of: BRIAN MOORE
Entitled:	AIRCRAFT CREW REST STATION FOR A LONG DISTANCE
	AIRLINE FLIGHT
Serial No.:	09/216,446
Filed:	December 18, 1998
Date Mailed:	March 18, 1999
Dkt No.:	BEAER:49607
JWP:rlm	* · · · · · · · · · · · · · · · · · · ·

Please acknowledge receipt of the attached Information Disclosure Statement (**in duplicate**); one page of Form PTO-FB-A820; and a copy of the reference cited thereon; by affixing hereon the Patent Office date stamp and eturning this card to our office.

Serial No.: Filed: Date Mailed: Dkt No.: JWP:rIm

AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT 09/216,446 December 18, 1998 March 18, 1999 BEAER:49607

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PATENT Atty. Docket No. BEAER:49607

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

**BRIAN MOORE** 

Serial No. 09/216,446

Filed: December 18, 1998

For: AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT

Date: March 18, 1999

#### Patent Application Branch Group Art Unit 3641

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with sufficient postage as First Class Mail in an envelope addressed to: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON D.C. 20231

on March 18, 1999.

Attorney for Applicant

James W. Paul, Reg. No. 29,967

## INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The information listed on the attached PTO-FB-A820 has come to the attention of the applicant. A copy of this reference is submitted to the Office in accordance with 37 CFR §1.97. Applicant believes that this Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in accordance with 37 CFR §1.97(b)(3) and, therefore, no fee is due. However, if a fee is in fact due for this Information Disclosure

#### Application No. 09/216,446

PATENT

Statement, the Commissioner is authorized to charge our Deposit Account No. 06-2425. A duplicate copy of this paper is enclosed.

Respectfully submitted,

FULWIDER PATTON LEE & UTECHT, LLP

James W. Paul, Reg. No. 29,967

JWP:rlm

Enc.: Form PTO-FB-A820 (with cited prior art reference)

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			Application Number	09/216,446			
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August 3, 1994

Mr. Jacques Quintin Cabin Interior Engineering Air France Etudes Techniques DT.UA Amenagements Commerciaux Orly Sud 124 F-94396 Orly Aerogare cedex France

COPY TO: Mr. Guy Benon, Commercial Proposal Only

SUBJECT: B747-400M Door 4 Crew Rest

Dear Jacques:

Flight Structures, Inc. (FSI) is pleased to present the following firm fixed price proposal for our 747-400 Door 4 Crew Rest. We have endeavored to answer all questions which were raised at our August 1 meeting in Arlington. Two key items are still open due to difficulties in getting quick responses from KLM. These include the aircraft down time and manhours required by KLM to perform their Door 4 installations and the availability of the KLM planning documentation. I expect this information in one or two days and will forward to Guy Benon and yourself as soon as I receive it.

One item which was not in our meeting minutes but was briefly discussed was that a flight test would be required if the smoke detector system in FSI's crew rest is changed from Cerberus Guinard to some other supplier such as Jamco. Because of this, FSI would recommend that you use Cerberus Guinard smoke detectors in order to avoid a flight test. In case you feel it is necessary to use a different smoke detector vendor, we have provided a price quote for the engineering necessary to perform this change.

Another item which could affect the smoke detection capability is the installation of curtains between the bunks. In order to avoid any certification problems and the possible need for a flight test, FSI would recommend that you do not install curtains prior to FAA approval of the first installation. You may recall that Boeing had a similar concern with the Door 5 Crew Rest on the 747-400 passenger aircraft. FSI

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Air France August 3, 1994 Page 2

could provide Air France with curtain installation provisions so that curtains could easily be added at a later time.

One last item I wish to mention is that FSI would require 50% of the total recurring contract price six (6) months prior to delivery of the first shipset. This is the same payment arrangement FSI and KLM had and is necessary due to the very large upfront cost of the six shipsets worth of material.

Please note that our technical Statement of Work is based upon FSI Document No. 91FS027020, Door 4 Overhead Crew Rest Specification, with changes to accommodate AFA's B747 combi configuration. A copy of this document was given to you at our August 1 meeting and will be included in our couriered package, but has not been included in our faxed transmission.

If you have any questions or require additional information, please do not hesitate to call.

Best regards,

Brian Berg VP Business' Development

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## PROPOSAL 92P072A

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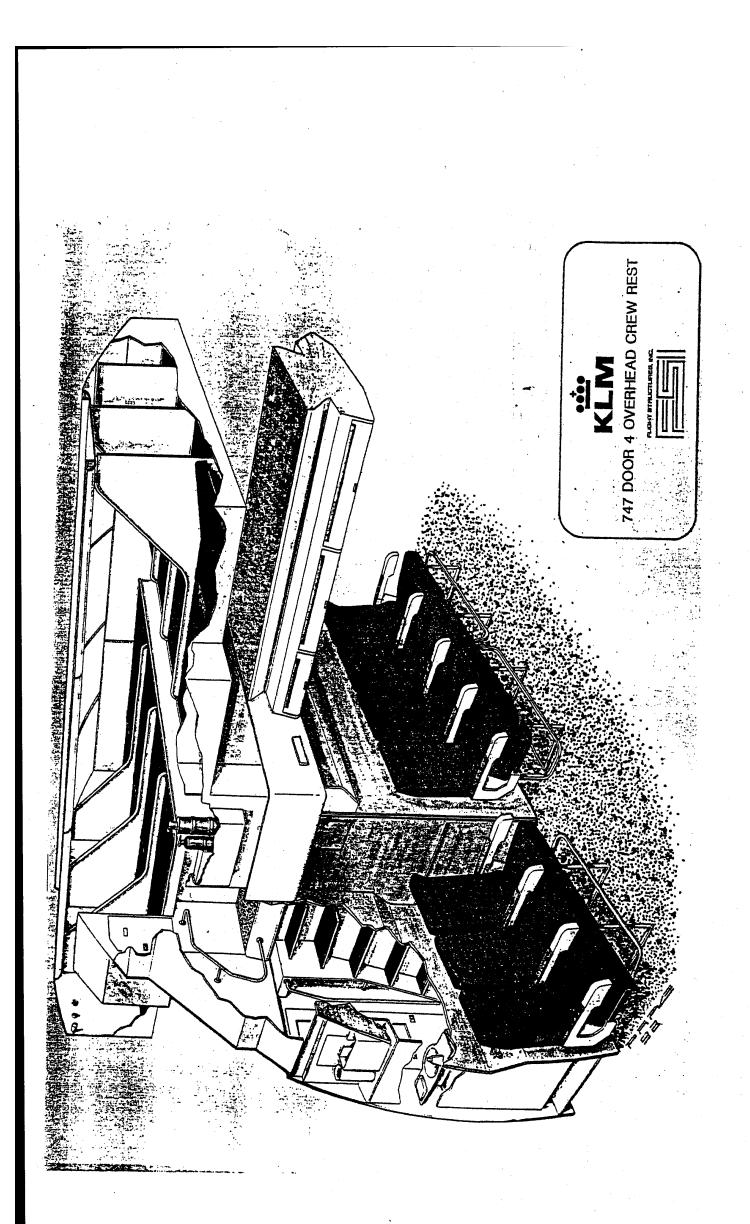
# DOOR 4 OVERHEAD CREW REST INSTALLATION ON AIR FRANCE B747 COMBI AIRCRAFT

PREPARED BY: FLIGHT STRUCTURES, INC. 18810 - 59TH AVENUE N.E. ARLINGTON, WASHINGTON 98223 (206)-435-8831 FAX: (206)-435-1145

BRIAN BERG. BUSINESS DEVELOPMENT

DATE

This proposal is proprietary to Flight Structures, Inc. and is for purposes of customer evaluation. No part of this proposal may be reproduced or disclosed without written authorization from Flight Structures, Inc.



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III. TÈ	CHNICAL	PROP	OSAL		
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#### 1.0 **INTRODUCTION**

Flight Structures, Inc. (FSI) proposal is for the design; substantiation and manufacture of six (6) shipsets of Door 4 Overhead Crew Rest (OCR) Installations in **Air France (AFA)** B747 Combi aircraft. Five (5) of the aircraft are AFA configurations (RT071-RT075) and one (1) of the aircraft are ex-UTA configuration (RT121). FSI's proposal is based upon the noted AFA aircraft in configurations as shown in LOPAs in Attachment IV.

92P072A 8/3/94 Page 11

#### 2.0 CERTIFICATION BASIS

The Door 4 OCR kit is designed to comply with all applicable FARs and JARs. The kit installation will be FAA certified by an amendment to an existing FSI Supplemental Type certificate (STC).

#### 3.0 SCOPE OF WORK

#### 3.1 DESIGN

- Coordinate receival of aircraft type design data

- Research aircraft type design data
- Prepare drawing tree
- Prepare installation, assembly and detail drawings
- Prepare master Bill of Materials
- Prepare Engineering Advanced Material Releases (EAMRs)
  - Prepare Installation Instructions with illustrations

#### 3.2 SUBSTANTIATION

- Provide preliminary material sizing for designers
- Perform internal and/or external loads analysis
- Perform detailed structural analysis utilizing classical methods and/or Finite Element Modelling (FEM)
  - Prepare structural test plan and report for latch assembly

	92P072 8/3/9 Page 1
3.3	CERTIFICATION
	- Prepare certification plan
	- Submit application for Letter of Approval
.*	- Submit application for Parts Manufacturing Approval (PMA)
	- Prepare flammability/heat release test plan and report
	- Provide DER review and approval of certification data package
	- Request parts conformity
	- Request installation conformity
	- Coordinate all activities with the FAA throughout the program to Letter of Approval issuance
3.4	TECHNICAL PUBLICATIONS/DOCUMENT CONTROL
	- Prepare technical manual updates including Component Maintenance Manual (CMM) and Illustrated Parts List (IPL).
	- Prepare Service Bulletins for modifications to FSI products
	- Coordinate the transmittal of all documentation to customer including technical manuals, drawings and reports where applicable.
3.5	OPERATIONS
	- Procure raw materials
	- Coordinate outside processes
•	- Perform inspections on raw material, in-house processes, subcontracted processes
	- Provide FAA Designated Manufacturing Inspection Representative (DMIR) approval of final assemblies
	- Package parts kits
	- Coordinate delivery per customer's shipping instructions

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92P072A 8/3/94 Page 13

Provide engineering liaison support for first shipset installation

## 4.0 STATEMENT OF WORK

The Door 4 OCR kit will be designed, substantiated, manufactured and certified per FSI Document No. 91FS027020, Door 4 Overhead Crew Rest Specification, with the following changes unique to AFA:

4.1 All references to KLM should be revised to say AFA.

- 4.2 Item 3.14 Delete.
- 4.3 Item 7.3 Replace wording "KLM B747-400 cockpit crewrest" with "AFA Main Deck crew rest".
- 4.4 Item 7.4 Delete wording "similar to the headrest used on the MCR berths".
- 4.5 Item 7.5 Delete part number, manufacturer and KLM code number. Will be replaced with AFA peculiar material requirements.
- 4.6 Item 7.6 Delete part number, manufacturer and KLM code number. Will be replaced with AFA peculiar material requirements.
- 4.7 Item 7.16 Delete second sentence, starting with "For standardization purposes,.....".
- 4.8 Item 7.27 Delete part number, manufacturer and KLM code number. Will be replaced with AFA peculiar material requirements.
- 4.9 Item 7.28 Delete part number, manufacturer and KLM code number. Will be replaced with AFA peculiar material requirements.
- 4.10 Item 7.29 Color TBD.

4.11 Item 9.2 - Delete requirement for control panel in G4/G5 galley area.

- 4.12 Item 10.2 Delete.
- 4.13 Item 10.8 Change to each berth will have a reading light.
- 4.14 Page 14.6 Not Applicable.

4.15 Rework lowered ceiling and structure to accommodate Door 4 OCR installation.

92P072A 8/3/94 Page 14 Rework galley header to accommodate Door 4 OCR installation. 4.16 Rework center overhead stowage bins to accommodate the Door 4 OCR 4.17 installation. 4.18 Rework smoke detection system, as required. Research and rework SATCOM provisions, as required to accommodate Door 4.19 4 OCR installation. Research and rework ACU logic/flight deck, as required to accommodate Door 4.20 4 OCR installation. 4.21 Research and revise circuit panels to accommodate Door 4 OCR installation. Design and install AFA requested bunk dividing curtain installation, if 4.22 required. 5.0 ASSUMPTIONS FSI General Terms and Conditions (Appendix I) and Equipment Warranty 5.1(Appendix II) are included. AFA will provide applicable aircraft data as needed by FSI. 5.2FSI assumes no flight test is required if the FSI approved smoke detection 5.3 system is not changed. FSI assumes any modifications performed in conjuction with the installation 5.4 of the Door 4 OCR will be handled by AFA. FSI assumes that their will not be any interior configuration changes to the 5.5 Door 4 OCR except decorative changes. FSI assumes the AFA will be responsible for all activities for obtaining DGAC 5.6 certification.

## 92P072A 8/3/94 Page 15

## 6.0 BFE EQUIPMENT

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FSI considers the following items to be Buyer Furnished Equipment (BFE) to be supplied by AFA. AFA is responsible for the supply and costs associated with providing BFE equipment in support of this program. BFE equipment is as follows:

- o Decorative Laminate
- o Mattress Fabric
- o Curtain Fabric (if required)
- o Oxygen Bottles
  - Fire Extinguisher H<sub>2</sub>O
  - Fire Extinguisher Halon
  - Carpet
  - Smoke Hood/Bracket (optional)
- o Fire Protection Gloves (optional)
- o Smoke Detectors, Control Panel, Indicator Lights
- o Flight Attendant Seat

## 7.0 MILESTONE SCHEDULE

Proposed Engineering and Manufacturing Milestone Schedule is enclosed as Appendix III.

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AULINGTION ADJPORT + 19810 - STITA AVE. N.E. • ARLINGTON, WA SE22 • G809 4354831 • FAX G809 435-1143         November 15, 1994       -       94P195         Mr. Jacques Quintin Cabin Interiors Engineering Air France       -       94P195         Dt. UA-Amenagements Commerciaux Orly Sud 124       -       94P195         94396 Orly Aerogare Cedex France       -       94396 Orly Aerogare Cedex France         CC:       Mr. Guy Benon, Contracts         SUBJECT:       Proposal for Closet in Door 4 Overhead Crew Rest (OCR) Closet(to Replace of Bunk 8), 6 Shipsets         REFERENCE:       AFA Meeting at FSI Arlington Facility, October 6, 1994 FSI Job 94FS458         Dear Jacques:       -         In follow up to the Preliminary Design Review meeting held on October 6 at FSI, we are pleased to provide AFA with a price proposal to retrofit the Door 4 OCR with a closet Kit that will replace the #8 Bunk position. Certification of the retrofit kit will be handled as an amendment to the Door 4 OCR STC.         Enclosed are a couple of sketches of the proposed conceptual design. The closet retrofit kit will modify Bunk #8 to include two separate stowage areas as follows:         0       The forward section will be a coat and bag stowage area, to include a telescoping coat rod. This section will be accessible from the aisleway through a netted soft door (with latch). The netted door is to ensure containment of loose baggage.         FSI's prices for the retrofit closet kit are:       Nor-Recurring Engineering Cost:         Nor-Recurring Engineer				
November 15, 1994       -       94P195         Mr. Jacques Quintin Cabin Interiors Engineering Air France       -       94P195         Dr. UA-Amenagements Commerciaux Orly Sud 124       -       <		FLIGHT STRUCTURES, INC.	011-33-1-4	6755191
November 15, 1994       -       94P195         Mr. Jacques Quintin Cabin Interiors Engineering Air France       -       94P195         Dr. UA-Amenagements Commerciaux Orly Sud 124       -       <	ARLING	TON AIRPORT • 18810 - 59TH AVE. N.E. • ARLINGTON, WA	98223 • (206) 435-8831 • FAX (206) 435-1145	
Mr. Jacques Quintin Cabin Interiors Engineering Air France Dt. UA-Amenagements Commerciaux Orly Sud 124 94396 Orly Aerogare Cedex France cc: Mr. Guy Benon, Contracts SUBJECT: Proposal for Closet in Door 4 Overhead Crew Rest (OCR) Closet(to Replace of Bunk 8), 6 Shipsets REFERENCE: AFA Meeting at FSI Arlington Facility, October 6, 1994 FSI Job 94F8458 Dear Jacques: In follow up to the Preliminary Design Review meeting held on October 6 at FSI, we are pleased to provide AFA with a price proposal to retrofit the Door 4 OCR with a closet kit that will replace the #8 Bunk position. Certification of the retrofit kit will be handled as an amendment to the Door 4 OCR STC. Enclosed are a couple of sketches of the proposed conceptual design. The closet retrofit kit will modify Bunk #8 to include two separate stowage areas as follows: • The forward section will be a miscellaneous stowage area that will be accessible through a door from bunk #7, • The aft section will be a coat and bag stowage area, to include a telescoping coat rod. This section will be accessible from the aisleway through a netted soft door (with latch). The netted door is to ensure containment of loose baggage. FSI's prices for the retrofit closet kit are: Non-Recurring Engineering Cost: \$28,350				· · ·
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Page 2 J. Quintin Air France

Note, due to height restrictions, this area is not tall enough for a coat to hang without gathering at the bottom.

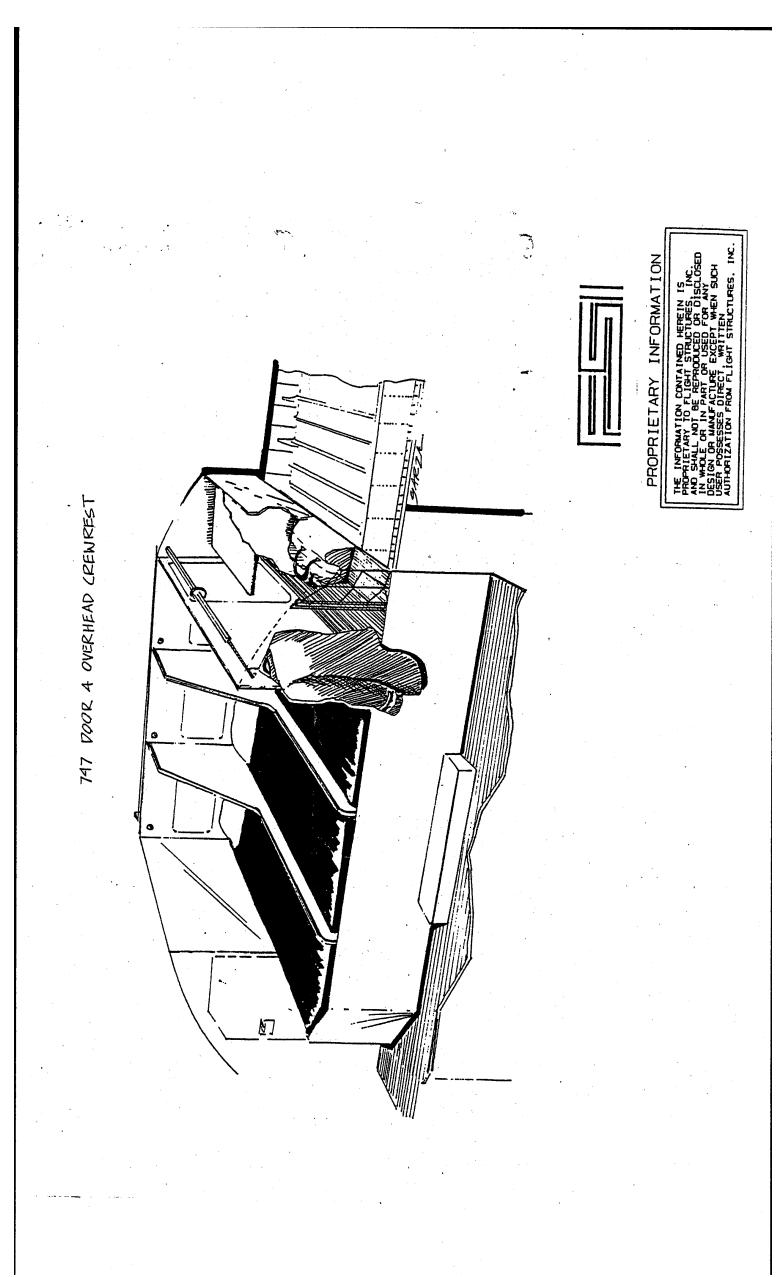
Lead time for first kit shipment is 18-20 weeks after receipt of order. After first kit installation and certification completion, follow on kits can be shipped within two weeks after receipt of PMA.

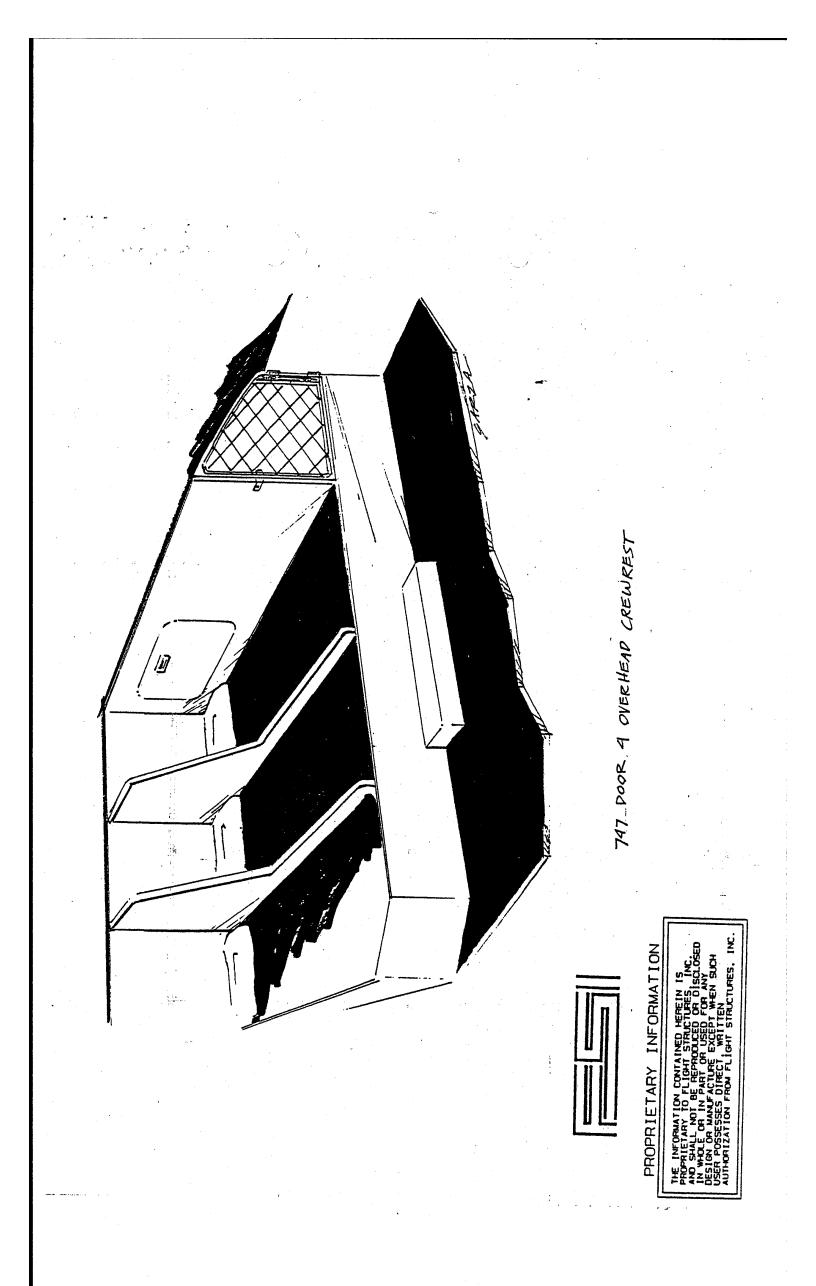
If you have any questions in regards to this proposal, please do not hesitate to contact me.

Best Regards,

Brian Berg / VP Business Development

/1s





taxed 7/23/96 FLIGHT STRUCTURES, INC. 1-48 64 00 4407 172ND STREET N.E. + ARLINGTON, WA 98223 + (360) 435-8831

July 23, 1996

Mr. Bruno Delile **Purchasing Manager** Air France BP 10253, F-95704 Roissy CDG Cedex, France

SUBJECT:

Budgetary Proposal for Door 5 Crew Rest Retrofit Kits for Air France (AFA) B747-300 Aircraft, 4 Shipsets (RD721, RD722, RS751, RS752)

FAX (360) 435-2705

BB, DLMISB

96P114

**REFERENCE**:

AF/D. Marc fax dated July 18, 996

Dear Bruno::

Flight Structures, Inc. (FSI) is pleased to provide the following budgetary proposal to supply Door 5 Crew Rest Area (CRA) Retrofit Kits for AFA B747-300 aircraft.

FSI has offered the same pricing as on our previous bid for the 747-200 Door 5 CRC. This assumes that the 747-300 crew rest could be produced in conjunction with the existing 747-200 crew rest order. We do have some concerns regarding meeting a February delivery but are optimistic it can be achieved if an order can be placed within one or two weeks.

Please do not hesitate to call if you have any questions regarding this proposal.

Best Regards, -

Brian Berg VP Marketing & Sales

Лs

AIR FRANCE NP 10253, F-95704 ROISSY CDG CEDEX FRANCE

## PROPOSAL 96P114

FOR

## DOOR 5 CREW REST COMPARTMENT

## **INSTALLATION IN B747-300 AIRCRAFT**

PREPARED BY: FLIGHT STRUCTURES, INC. 18810 - 59TH AVENUE N.E. ARLINGTON, WASHINGTON 98223 (206)-435-8831 FAX: (206)-435-1145

BRIAN BERG, **VP MARKETING & SALES** 

<u>17-23-96</u> DATE

This proposal is proprietary to Flight Structures, Inc. and is for purposes of customer evaluation. No part of this proposal may be reproduced or disclosed without written authorization from Flight Structures, Inc.

## 1.0 **INTRODUCTION**

Flight Structures, Inc. (FSI) proposal is for engineering, manufacturing and FAA certification for installation of a Door 5 Crew Rest Area (CRA) Retrofit Kit in Air France (AFA) B747-300 aircraft. FSI will utilize the existing 8-bunk certified configuration (Virgin Atlantic) engineering data package, and provide engineering support as required to accommodate changes to this package for customer peculiar decoratives, BFE and emergency equipment, electrical rework, aft lav systems revisions and ceiling panel changes to meet AFA's specific requirements. Additional deviations from the data package will be reviewed for impact to costs and schedule.

## 2.0 CERTIFICATION BASIS

The crew rest kit is designed to comply with all applicable FARs and JARs. The kit installation will be FAA certified by an amendment to an existing FSI Supplemental Type Certificate (STC).

## 3.0 <u>SCOPE</u>

### 3.1 DESIGN

- Research aircraft type design data
- Prepare drawing tree
- Prepare installation, assembly and detail drawings
- Prepare master Bill of Materials
- Prepare Engineering Advanced Material Releases (EAMRs)

## 3.2 SUBSTANTIATION

- Provide preliminary material sizing for designers
- Perform internal and/or external loads analysis
- Perform detailed structural analysis utilizing classical methods and/or Finite Element Modelling (FEM)
- Prepare structural test plan and report

## 3.3 CERTIFICATION

- Prepare STC amendment certification plan
- Submit application for amendment
- Prepare flammability test plan and report
- Provide DER review and approval of certification data package
  - Request parts conformity
    - Request installation conformity
    - Coordinate all activities with the FAA through STC issue.

## 3.4 TECHNICAL PUBLICATIONS/DOCUMENT CONTROL

- Prepare Component Maintenance Manuals with Illustrated Parts Lists per ATA 100 - five (5) copies.
- Coordinate the transmittal of all documentation to customer including technical manuals, drawings and reports where applicable.

## 3.5 OPERATIONS

- Procure raw materials
- Coordinate outside processes
- Perform inspections on raw material, in-house processes, subcontracted processes
- Provide FAA Designated Manufacturing Inspection Representative (DMIR) approval of final assemblies
- Package parts kits
  - Coordinate delivery per customer's shipping instructions

## 4.0 STATEMENT OF WORK

The following is a brief statement of work for Door 5 CRA Retrofit Kit installation:

## 4.1 INTERIOR

Install overhead console

- Install ceiling panels

Install wash light valance

- Install sidewalls
  - Fwd bulkhead
  - Aft bulkhead
  - Left sidewalls
  - Right sidewalls
  - Stairway partitions
- 4.2 <u>CLOSET</u>

Replace existing coat closet with new stairway closet, M/D, right side STA 2300 - STA 2360, RBL 61.75.

Rework existing M/D sidewall panel right side STA 2300 - STA 2360.

Install hand rails

Rework main deck ceiling support structure

- Install closet support structure

## 4.3 <u>STRUCTURES</u>

Modify life raft beam

- Install new floor beams
- Install longitudinal beams
- Install cantilevered floor beam

Install seat tracks STA 2370 to 2231 at left and right BL 46.65, 27.99, 9.33.

Petitioner C&D Zodiac, Inc. – Exhibit 1009 - Page 85

## Install crew rest floor panels

Install intercostals to support M/D ceiling panels

## 4.4 ESCAPE HATCH

Provide escape opening in crew rest floor STA 2306 to STA 2330, LBL 60 to LBL 39.75.

Install kickout panel in M/D ceiling panels

## 4.5 ENVIRONMENTAL CONTROL SYSTEM (ECS)

- Install independent air conditioning system to supply heated or cooled air to the crew rest area
- Provide gasper air to each berth

## 4.6 SYSTEMS INSTALLATION PROVISION

- Cabin interphone
- Public address system
- Oxygen drop units for each berth
- Smoke detection
- Illuminated passenger information signs

• General area lighting

- Reading lamps
- Emergency light and buzzer
- Environmental Control System (ECS)

## 4.7 <u>GENERAL</u>

4.7.1 The FSI Door 5 CRA retrofit kit configuration as installed in VAA B747-200 aircraft will be installed in the AFA B747-300 aircraft.

4.7.2 The compartment will be certified for eight (8) occupants. Compartment shall not be certified for occupancy during take-off and landing.

4.7.3 Curtains will be provided between the four (4) lay down bunks in the forward location, but not for the two (2) double seat track mounted bunks, since their use adversely affects smoke detection and evacuation.

#### 5.0 PARTS KIT

#### 5.1 STRUCTURE

- Floor beam assemblies Aircraft reinforcement Seat tracks
- Floor beam intercostal assemblies

#### 5.2 COMPARTMENT

- Floor panel assemblies
- Sidewall panels

Equipment access door assemblies

Forward and aft bulkhead assemblies

- Ceiling panel assemblies
- Stairwell assembly

Stairwell enclosure assembly

Stairwell door with locking capability

#### 5.3 SYSTEMS

Environmental Control System

Emergency oxygen system (gaseous aircraft hook-up)

Gasper air system

Smoke detectors system with aural and visual display in cockpit and at

purser's station

#### 5.4 ELECTRICAL

No Smoking/Fasten Seat Belt sign - lighted Provisions for 115V 400Hz and 115V 60 Hz outlets Stairwell light with switch at main deck level General lighting with bright and dim settings Cabin interphone to cockpit and purser stations Speakers for PA announcements Individual reading lights with on/off switch

EMERGENCY EQUIPMENT One portable oxygen bottle One halon fire extinguisher One water fire extinguisher Two flashlights Two smoke hoods

## 6.0 ASSUMPTIONS

5.5

6.1 AFA will provide applicable aircraft data as needed by FSI.

6.2 Emergency oxygen system will utilize the existing aircraft gaseous system.

6.3 A flight test will not be required for STC amendment. If required, FSI will provide a flight test pilot on a time and material basis to support the flight test.

## 7.0 BFE LIST

**AFA** is responsible for all costs associated with supplying BFE equipment to FSI. FSI has assumed the B747-300 Door 5 CRA BFE equipment to be the same as provided for AFA's B747-200 Door 5 CRA.

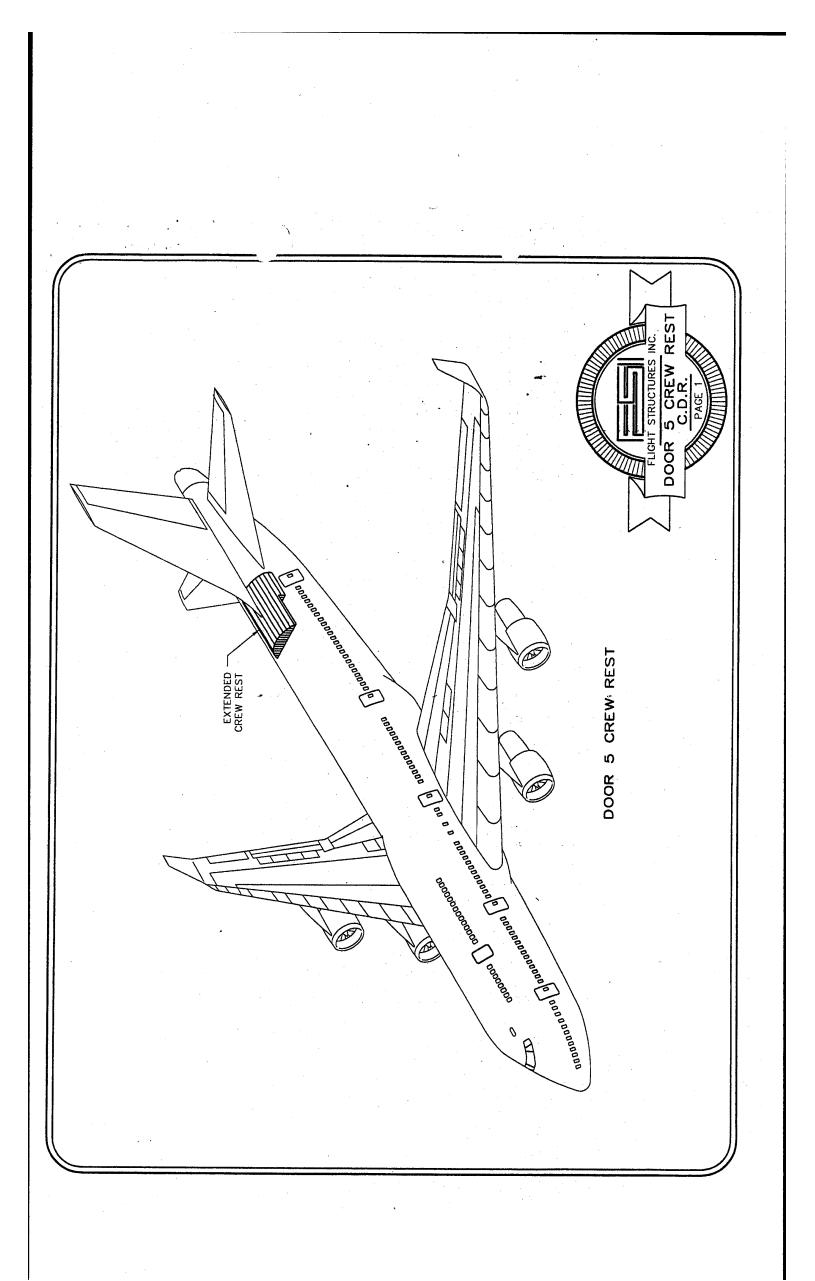
## 8.0 **DELIVERY**

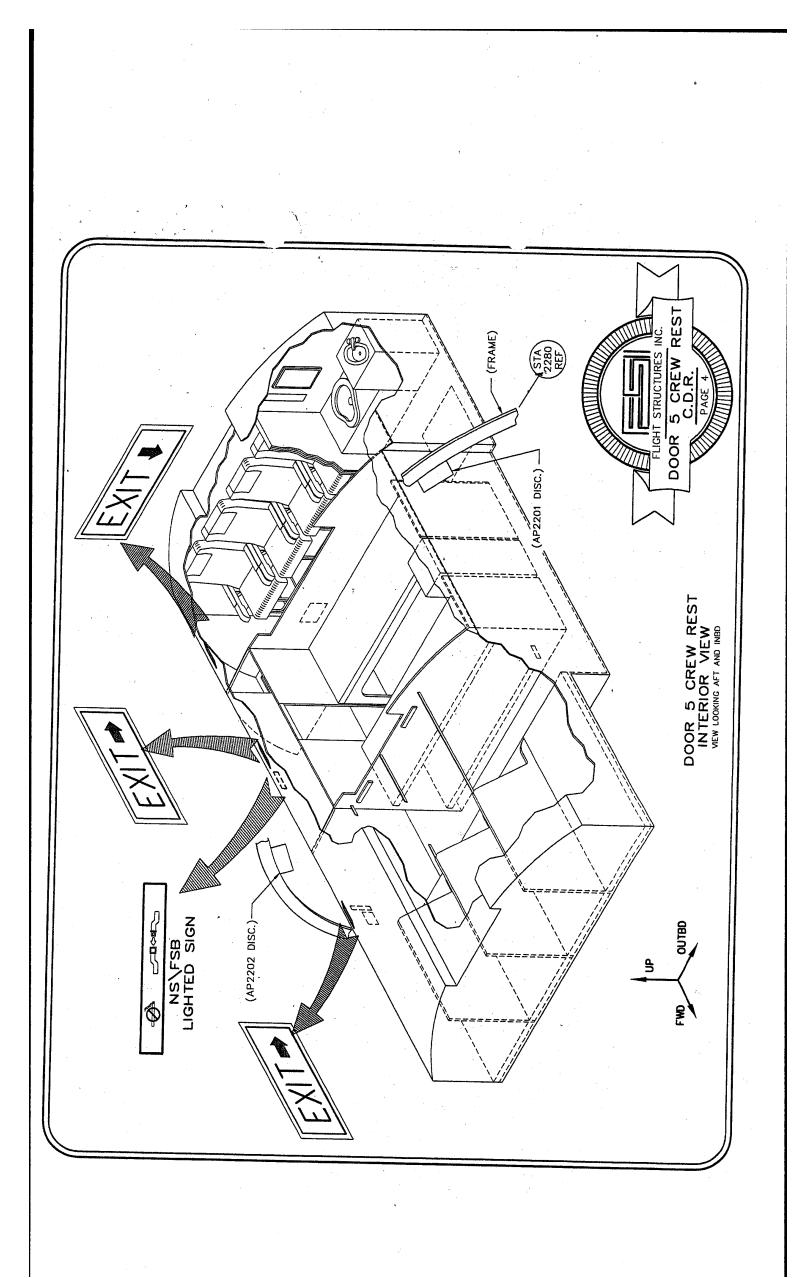
Shipset #1:

6-7 months after receipt of order, depending upon capacity at time of order.

Follow On Shipsets: 1 shipset per month, until order completion.

Exact delivery to be verified upon receipt of order.







## **B747 DOOR #5 CREW REST AREA COMPARTMENT**

### **DOOR 5 CREW REST AREA**

Flight Structures, Inc. and Hong Kong Aircraft Engineering Company have jointly participated in the engineering and manufacture of this Door #5 Crew Rest Area (CRA). The CRA was designed for retrofit installation in all of the B747-100, -200, and -300 aircraft. This crew rest utilizes a "beam-in" design concept which minimizes aircraft down time quantity of structural parts. This also eliminates the need for rework to the overhead stow bins. Manufacture of the CRA's is ongoing with kits available within standard production schedules.

### Standard Features:

Commonality with Boeing 747-400 Crew Rest includes:

- Emergency Equipment Locations
- Staircase Access Area
- · Emergency Escape hatch
- E8 Equipment
- Rack Location

- Self-contained Environmental Control System
- Acoustically Treated Compartment Panels
- · Vibration Isolators at Compartment/ Aircraft Interfaces.
- **Reading Lights**
- Privacy Curtains
- Area Lighting
- Emergency Equipment Provisions
- Cabin Interphone
- Compliance with 65/65 Heat Release Requirement

**ARLINGTON AIRPORT** 

· Compliance with FAR's and JAR's Load Requirements

### **OPTIONS:**

- Configuration Capacity of Four to Ten Bunks
- Audio-entertainment provisions
- · Video-entertainment provisions
- Humidification
- Gasper Air
- Mirrors
- Tilting Bunks

## FLIGHT STRUCTURES, INC.

18810 - 59th AVE. N.E. ARLINGTON, WA 98223 (206) 455-5426 (206) 435-8831 FAX (206) 435-3705

# HAECO HONG KONG AIRCRAFT ENGINEERING COMPANY LIMITED

60 Concorde Road, Hong Kong International Airport, Kai Tak, Hong Kong Telephone 3-7676142. Cables: AIRENG. Telex: 44664 HAECO HX. SITA: HKGXSXH. Fax: (852) 37545898

	ed States Patent 4	and Trademark Office	UNITED STATES DEPARTM United States Patent and T Address: COMMISSIONER OF PJ Washington, D.C. 20231 www.uspto.gov.	rademark Office ATENTS AND TRADEMARK
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/05/2001 590 12/03/2001	Brian W. Moore	BEAER:58327	7886
	PATTON LEE & UTE	CHT, LLP	EXAMI	NER
6060 CENTER TENTH FLOO	DRIVE		BAREFOOT,	, GALEN L
LOS ANGELE			ART UNIT	PAPER NUMBER
			3644	
			DATE MAILED: 12/03/2001	

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

PTO-90C (Rev. 07-01)

	Application No. 09/947,275	Applicant(s) Brian I	Noore
Office Action Summary	Examiner Galen Barei	Art Unit 3644	
The MAILING DATE of this communication a	opears on the cover sheet w	ith the correspondence ad	dress
Period for Reply		and "	
A SHORTENED STATUTORY PERIOD FOR REPLY	S SET TO EXPIRE 3	MONTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of	of 37 CFR 1.136 (a). In no ev	ent, however, may a reply be	timely filed
after SIX (6) MONTHS from the mailing date of this col- - If the period for reply specified above is less than thirty (3)	O) days, a reply within the sta	tutory minimum of thirty (30)	days will
<ul> <li>be considered timely.</li> <li>If NO period for reply is specified above, the maximum sta communication.</li> </ul>			
<ul> <li>communication.</li> <li>Failure to reply within the set or extended period for reply</li> <li>Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>	after the mailing date of this co	blication to become ABANDO communication, even if timely	NED (35 U.S.C. § 133) filed, may reduce any
Status			
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	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice unde	vance except for formal m r <i>Ex parte Quayle</i> , 1935 (	atters, prosecution as to C.D. 11; 453 O.G. 213.	the merits is
Disposition of Claims		· · ·	
4) 💢 Claim(s) <u>1-6</u>			
4a) Of the above, claim(s)		is/are withdraw	n from consideration
5) 🗌 Claim(s)		is/are allow	ed.
6) 🔀 Claim(s) <u>1-6</u>			
7) 🗌 Claim(s)	·	is/are objec	ted to.
8) 🗌 Claims	are sub	ject to restriction and/or	election requiremen
Application Papers			
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on	_ is/are objected to by the	Examiner.	
11) The proposed drawing correction filed on _	is: a)[	☐ approved b)☐ disapp	proved.
12) The oath or declaration is objected to by th			
Priority under 35 U.S.C. § 119			
13) Acknowledgement is made of a claim for fo	preign priority under 35 U.	S.C. § 119(a)-(d).	
a) All b) Some* c) None of:			
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3. Copies of the certified copies of the p application from the Internatio *See the attached detailed Office action for a			ial Stage
14) Acknowledgement is made of a claim for d			
Attachment(s)			
15) X Notice of References Cited (PTO-892)		ary (PTO-413) Paper No(s).	_
16) Notice of Draftsperson's Patent Drawing Review (PTO-948)		al Patent Application (PTO-152)	
17) 🔀 Information Disclosure Statement(s) (PTO-1449) Paper No(s):	20) Other:		

Application/Control Number: 09/947275

Art Unit: 3644

## **DETAILED ACTION**

## Drawings

1. The drawings have been approved.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1-6 are rejected under 35 U.S.C. § 102(a) as being clearly anticipated by the

Proposed crew rest module of "Boeing 747 crew rest compartment...." cited by applicant .

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Page 2

Application/Control Number: 09/947275

Page 3

Art Unit: 3644

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Galen Barefoot whose telephone number is (703) 308-2567 and fax no.
(703) 305-7687.

November 29, 2001

Galen Barefoot Primary Examiner Technology Center 3644

			0::1	Applicant/Patent Brian Moore	Application/Control No. 09/947,275			
	Notice of References Cited			Examiner Galen Barefoot	Art Unit 3644	Page 1 of 1		
			U.	S. PATENT DOCUMENTS			·····	
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY'	Name	d <sup>a</sup>	Clas	sification <sup>2</sup>	
×	A	4,066,227	1/1978	Buchsel	<b></b>	244	118.5	
<	B	4,589,612	5/1986	Halim		244	118.6	
¢	С	4,653,707	3/1987	Hamilton et al		244	118.5	
x ;	ل	5,155,999	5/1992	Buchsel et al	·	244	118.5	
Z	E	5,992,797	11/1999	Seidel et al		244	118.5	
x	F	6,003,813	12/1999	Wentland et al		244	118.5	
x	G	5,115,999	5/1992	Buchsel et al		244	118.5	
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	NON-PATENT DOCUMENTS								
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\* A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(a). <sup>1</sup> Dates in MM-YYYY format are publication dates. <sup>2</sup> Classifications may be U.S. or foreign.

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

Notice of References Cited

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Part of Paper No. 4

OIP COPY OF PAPERS **ORIGINALLY FILED** PATENT & TRAD CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8 I hereby certify that this correspondence is being/deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: BOX NON-FEE AMENDMENT, Commissioner for Prients, Washington, D.C. 20231 dn February 26, 2002. Paul, Reg. No. 29,967

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re the application of

BRIAN MOORE

Serial No. 09/947,275

Filed: September 5, 2001

For: AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT Examiner: Galen Barefoot

Group Art Unit: 3644

Docket No. BEAER 58327

Los Angeles, California Date: February 26, 2002 MAR 1 3 2002

## **GROUP 3600**

## **REPLY TO OFFICE ACTION UNDER 37 CFR 1.111**

BOX NON-FEE AMENDMENT Commissioner for Patents Washington, D.C. 20231

Dear Sir:

This is in reply to the Office Action dated December 3, 2001, setting a

shortened statutory period for the filing of a response of three months.

Please enter the following amendments.

## **IN THE SPECIFICATION:**

At page 5, first full paragraph, lines 7-23, please change the paragraph to read: Referring to Fig. 4, in a presently preferred embodiment, the overhead crew rest portion includes two forward bunks 48, two aft bunks 50, and four side bunks 52. The overhead crew rest portion is preferably formed of a lightweight composite material, such as fiberglass, for example, and can be molded as a single unit for increased strength, so that the unit does not need to be bolted together. Alternatively, the overhead crew rest portion can be formed of modular sections, with aft 51 and forward 49 bunk modules that can be connected together with a central deck module 53, as well as a desired number of side bunk modules 55, all preferably formed of molded composite material, such as fiberglass. It should be recognized that a crew rest station of a larger or smaller capacity could also be provided by simply increasing or reducing the number of side bunks, and that a flight crew rest station could be provided at other locations in the aircraft as well, such as a forward flight crew rest station with two bunks, for example. The overhead crew rest portion preferably is accessed by an entry ladder 54 extending up through an entry way 56. It should be pointed out that the typical hoop frame 58 of the aircraft supports and allows for sufficient space for the overhead crew rest portion in otherwise unused space of the aircraft.

230017.1

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## REMARKS

By the foregoing Amendment, the specification has been amended to describe reference numbers shown in the drawings, and particularly in Fig. 4, to conform to the corresponding amendment of the specification made in the parent application, Serial No. 09/649,505.

Claims 1-6 were rejected under 35 U.S.C. 102(a) as being anticipated by the proposed crew rest module of "BOEING 747 CREW REST COMPARTMENT...." showing groups of forward and aft bunks, with a side stairway entry to a passage connected to the groups of forward and aft bunks. Claims 1-6 were canceled in the Preliminary Amendment filed on September 5, 2001 with the present continuation application, and Claims 7-14 were added. Currently Claims 7-14 should be pending.

A copy of the Preliminary Amendment filed September 5, 2001 is attached for the Examiner's immediate reference, along with a copy of the return postcard indicating receipt of the Preliminary Amendment by the U.S. Patent and Trademark Office on September 5, 2001. It is respectfully submitted that the attached copy of the Preliminary Amendment filed September 5, 2001 was filed on September 5, 2001 by Express Mail, as is indicated by the Express Mail number on the first page of the document, and was received

3

by the by the U.S. Patent and Trademark Office on September 5, 2001, as is indicated on the copy of the return postcard stamped by the U.S. Patent and Trademark Office on September 5, 2001.

Claim 7 recites, "a central entry way disposed in said overhead crew rest portion; and a central entry vestibule connected to said passenger seating area and providing direct access to said central entry way of said overhead crew rest portion." While a passageway leading to a side stairway entry is disclosed in the "BOEING 747 CREW REST COMPARTMENT AND PROPOSALS..." materials, these material do not disclose, teach or suggest a central entry way disposed in the overhead crew rest portion with a central entry vestibule connected to the passenger seating area and providing direct access to a central entry way. It is therefore respectfully submitted that Claims 7-18 are novel and inventive over the "BOEING 747 CREW REST COMPARTMENT...." reference, and that the rejection of Claims 7-14 on the grounds of anticipation on this basis should be withdrawn.

4

In light of the foregoing remarks, favorable consideration of the application is

respectfully requested.

Respectfully submitted, FULWIDER PATTON LEE & UTECHT, LLP James W. Paul Registration No. 29,967

JWP/rvw Encls.:

Version with markings to show changes made Copy of Preliminary Amendment of September 5, 2001 Copy of Return Postcard filed September 5, 2001 Return Postcard

5

Howard Hughes Center 6060 Center Drive, Tenth Floor Los Angeles, CA 90045 Tel. No. (310) 824-5555 Facsimile No. (310) 824-9696

Customer No. 24201

## VERSION WITH MARKINGS TO SHOW CHANGES MADE IN THE SPECIFICATION:

At page 5, first full paragraph, lines 7-23, the paragraph is amended to read: Referring to Fig. 4, in a presently preferred embodiment, the overhead crew rest portion includes two forward bunks 48, two aft bunks 50, and four side bunks 52. The overhead crew rest portion is preferably formed of a lightweight composite material, such as fiberglass, for example, and can be molded as a single unit for increased strength, so that the unit does not need to be bolted together. Alternatively, the overhead crew rest portion can be formed of modular sections, with aft 51 and forward 49 bunk modules that can be connected together with a central deck module 53, as well as a desired number of side bunk modules 55, all preferably formed of molded composite material, such as fiberglass. It should be recognized that a crew rest station of a larger or smaller capacity could also be provided by simply increasing or reducing the number of side bunks, and that a flight crew rest station could be provided at other locations in the aircraft as well, such as a forward flight crew rest station with two bunks, for example. The overhead crew rest portion preferably is accessed by an entry ladder 54 extending up through an entry way 56. It should be pointed out that the typical hoop frame 58 of the aircraft supports and allows for sufficient space for the overhead crew rest portion in otherwise unused space of the aircraft.

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Petitioner C&D Zodiac, Inc. - Exhibit 1009 - Page 102

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Name (Print/Type) James W. Paul		egistrat ttorney//			9,967		Telephone	310-824	-5555
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			DATE MAILED: 05/24/2002	

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

PTO-90C (Rev. 07-01)

, ,			Application No. 09/947,275	Applicant(s	) Brian M	0079
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a) 🗆	The translation of the foreign language	provisional	application has been	received.		
	cknowledgement is made of a claim for	domestic p	riority under 35 U.S	.C. §§ 120	and/or 121.	
ttachment						
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)		) Interview Summary (PT			
	ation Disclosure Statement(s) (PTO-1449) Paper Nc(s).		) Notice of Informal Pate ) Other:	π Application (F	10-152)	
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Application/Control Number: 09/947275

Art Unit: 3644

## **DETAILED ACTION**

## Drawings

1. The drawings have been approved.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 7-14 are rejected under 35 U.S.C. § 102(a) as being clearly anticipated by the

Proposed crew rest module of "Boeing 747 crew rest compartment...." cited by applicant .

The claim does not distinguish that the central entry or central vestibule is central in all directions,

Boeing 747.... is central to fore-aft direction.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Page 2

Application/Control Number: 09/947275

Page 3

Art Unit: 3644

5. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Galen Barefoot whose telephone number is (703) 308-2567 and fax no. (703) 305-7687.

May 23, 2002

Galen Barefoot Primary Examiner Technology Center 3644

SEP 0 3 2002 NO

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: BOX NON-FEE AMENDMENT, Commissioner for Patents, Wathington, D.C. 20231 on <u>August 26, 2002</u>

James Paul, Reg. No. 29,967 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

HECEN SEP 0 5 2002 GROUD

9/10/02 1/10/02

In re the application of

**BRIAN MOORE** 

Serial No. 09/947,275

Filed: September 5, 2001

For: AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT Examiner: Galen Barefoot Group Art Unit: 3644

Docket No. BEAFS 58327

Los Angeles, California Date: August 26, 2002

# **REPLY TO OFFICE ACTION**

BOX NON-FEE AMENDMENT Commissioner for Patents Washington, D.C. 20231

Dear Sir:

This is in reply to the Office Action dated May 24, 2002, setting a

shortened statutory period for the filing of a response of three months.

Claims 7-14 were rejected under 35 U.S.C. 102(a) on the grounds of

anticipation by the proposed crew rest module of "BOEING 747 CREW REST

# Serial No. 09/947,275

COMPARTMENT...." Claim 7 recites, "a central entry way disposed in said overhead crew rest portion; and a central entry vestibule connected to said passenger seating area and providing direct access to said central entry way of said overhead crew rest portion." While a passageway leading to a side stairway entry is disclosed in the "BOEING 747 CREW REST COMPARTMENT AND PROPOSALS..." materials, these materials do not disclose, teach or suggest a central entry way disposed in the overhead crew rest portion with a <u>central entry vestibule</u> connected to the passenger seating area and providing direct access to a central entry way.

The Examiner indicated that "BOEING 747.... is central to fore-aft direction." However, the reference does not teach or disclose a central vestibule, i.e. located centrally along the fore-aft direction. The Examiner also indicated that the claims "do not distinguish that the central entry or central vestibule is central in all directions." Webster's New Collegiate Dictionary, 1980, defines "central" as "situated at, in or near the center." It is respectfully submitted that it is not necessary or desirable to define the term "central" in the claims as meaning "central in all directions" in order to distinguish the reference.

In the "KLM" drawing accompanying the "PROPOSAL 92P072A FOR DOOR 4 OVERHEAD CREW REST INSTALLATION ON AIR FRANCE B747

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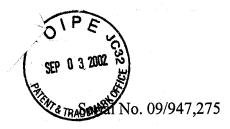
# Serial No. 09/947,275

COMBI AIRCRAFT" of the reference cited, an entry way and vestibule area are clearly not in a central location relative to the crew rest area. It is therefore respectfully submitted that this portion of the reference does not disclose either "a central entry way disposed in said overhead crew rest portion," or "a central entry vestibule connected to said passenger seating area and providing direct access to said central entry way of said overhead crew rest portion," as is claimed.

In page T3 of the portion of the reference cited entitled "PROPOSAL 96P114" in section 4.2 "CLOSET", the stairway closet is indicated as being on the right side, and in the drawings for this portion of the reference entitled "DOOR 5 CREW REST INTERIOR VIEW" indicated as looking aft and inboard, the entry way appears to be central between the fore and aft portions of the crew rest station, but there is no disclosure of any location of "a central entry vestibule."

It is therefore respectfully submitted that Claims 7-14 are novel and inventive over the "BOEING 747 CREW REST COMPARTMENT...." reference, and that the rejection of Claims 7-14 on the grounds of anticipation by this reference should be withdrawn.

3



In light of the foregoing, favorable consideration of the application is

respectfully requested.

Respectfully submitted, FULWIDER PATTON LEF & UTECHT, LLP James W. Paul Registration No. 29,967

JWP/rvw Encls.: Return Postcard

Howard Hughes Center 6060 Center Drive, Tenth Floor Los Angeles, CA 90045 Tel. No. (310) 824-5555 Facsimile No. (310) 824-9696

Customer No. 24201

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			Application Nu		9/947,275
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	FORM		First Named Inv	ventor B	rian Moore
(to be used fo	r all correspondence aft	er initial filing)	Group Art Unit	· .	3644
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Notice of Allowability	Application No. 09/947,275	Applicant(s)	Brian M	oore
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Il claims being allowable, PROSECUTION ON THE MERITS or previously mailed), a Notice of Allowance (PTOL-85) or o HIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE ne initiative of the Office or upon petition by the applicant.	ther appropriate commu INT RIGHTS. This appl	inication will ication is aub	be mailed in du	e course
. $oxtimes$ This communication is responsive to <u>9/3/2002</u>				·
. X The allowed claim(s) is/are 7-14				•
. 🛛 The drawings filed on <u>Sep 5, 2001</u> are a	ccepted by the Exami	ner.		
. 🔲 Acknowledgement is made of a claim for foreign p	priority under 35 U.S.C	C. § 119(a)-(	d).	
a) 🗌 All b) 🗌 Some* c) 🗌 None of the:				
1. Certified copies of the priority documents ha				
2. Certified copies of the priority documents ha				
3. Copies of the certified copies of the priority application from the International Bureau	documents have been (PCT Rule 17.2(a)).	received in	this national st	age
*Certified copies not received:				
. C Acknowledgement is made of a claim for domestic	priority under 35 U.S	.C. § 119(e)	) (to a provisio	nal application).
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pplicant has THREE MONTHS FROM THE "MAILING DATE" oted below. Failure to timely comply will result in ABANDO XTENDABLE.	of this communication NMENT of this applicat	to file a reply ion. <b>THIS TH</b>	complying with	h the requirements RIOD IS NOT
A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g	mitted. Note the attache ives reason(s) why the e	ed EXAMINE	R'S AMENDMEN ration is deficier	NT or NOTICE OF nt.
□ CORRECTED DRAWINGS must be submitted.				
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1) hereto or 2) to Paper No.				
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(c) including changes required by the attached Exa Paper No	iminer's Amendment/C	comment or	in the Office a	ction of
Identifying indicia such as the application number (see 37 CFR each sheet. The drawings should be filed as a separate paper	1.84(c)) should be writter with a transmittal letter ac	n on the drawin idressed to the	ngs in the top ma e Official Draftsp	argin (not the back) of erson.
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UNITED STATES PATENT AND TRADEMARK OFFICE

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#### **NOTICE OF ALLOWANCE AND FEE(S) DUE**

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HOWARD HUGH 6060 CENTER DR			BAREFOOT,	GALEN L
TENTH FLOOR LOS ANGELES, (	A 00045		ART UNIT	CLASS-SUBCLASS
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			DATE MAILED: 09/27/2002	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/947,275	09/05/2001	Brian W. Moore	DELTER SOLO	CONFIRMATION NO.

Brian W. Moore

TITLE OF INVENTION: AIRCRAFT CREW REST STATION FOR A LONG DISTANCE AIRLINE FLIGHT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$300	\$1580	12/27/2002

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 REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS

## 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 is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, 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 the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status. See 37 CFR 1.27. 

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. 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.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box 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 4

PTOL-85 (REV. 04-02) Approved for use through 01/31/2004.

Petitioner C&D Zodiac, Inc. – Exhibit 1009 - Page 115

# PART B - FEE(S) TRANSMITTAL

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

		,	Fax	Commissione Washington, (703)746-4000	D.C. 20231	
INSTRUCTIONS: This for appropriate. All further co- indicated unless corrected maintenance fee notificatio	rm should be used for t rrespondence including th below or directed otherw ns.	ransmitting the ISSUE F he Patent, advance orders ise in Block 1, by (a) sp	EE and PUBLIC and notification ecifying a new c		required). Blocks 1 through 4 es will be mailed to the curren ress; and/or (b) indicating a sep	
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09/947,275 TITLE OF INVENTION: A	09/05/2001 IRCRAFT CREW REST	STATION FOR A LONG	Brian W. Moore DISTANCE All	RLINE FLIGHT	BEAER:58327	7886
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This collection of information obtain or retain a benefit b application. Confidentiality estimated to take 12 minute completed application form case. Any comments on t suggestions for reducing th Patent and Trademark Offic NOT SEND FEES OR Commissioner for Patents, V	ion is required by 37 CFI y the public which is to is governed by 35 U.S.C. s to complete, including p to the USPTO. Time w he amount of time you is burden, should be sent c, U.S. Department of Cc COMPLETED FORMS	1.311. The information file (and by the USPTO 122 and 37 GFR 1.14. Th gathering, preparing, and ill vary depending upon require to complete this to the Chief Information mmerce, Washington, D. TO, THUS ADDRESS.	is required to to process) an is collection is submitting the the individual s form and/or Officer, U.S. C. 20231. DO SEND TO.			
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/947,275	09/05/2001	Brian W. Moore	BEAER:58327	7886
24201	7590 09/27/2002		EXAMIN	ER
FULWIDER PA	ATTON LEE & UTEC	CHT, LLP	BAREFOOT,	GALEN L
6060 CENTER D			ART UNIT	PAPER NUMBER
TENTH FLOOR LOS ANGELES,	CA 90045		3644 DATE MAILED: 09/27/2002	

#### 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 days. 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 term adjustment will be 0 days.

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) system. (http://pair.uspto.gov)

Page 3 of 4

PTOL-85 (REV. 04-02) Approved for use through 01/31/2004.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/947,275	09/05/2001	Brian W. Moore	BEAER:58327	7886
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6060 CENTER DF			ART UNIT	PAPER NUMBER
TENTH FLOOR	34 00045		3644	
LOS ANGELES, ( UNITED STATES			DATE MAILED: 09/27/2002	

# Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Page 4 of 4

PTOL-85 (REV. 04-02) Approved for use through 01/31/2004.

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		Attorney Docket Number	BEAFS:58327
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	Date 03/10/2003	* /	
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	I hereby certify that this correspondence is being deposited with the envelope addressed to: Commissioner for Patents, Washington,	he United States Postal Service wi D.G. 20231 on this date:	ith sufficient postage as first class mail in an 03/10/2003

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE MTENT & TRACE In the application of: Examiner: G. L. Barefoot Brian W. Moore Group Art Unit: 3644 Patent No.: 6,520451 B1 Docket No.: BEAFS-58327 Serial No.: 09/947,275 Filed: Sep. 5, 2001 Issued: Feb. 18, 2003 Priority Date: Dec. 18, 1998 For: AIRCRAFT CREW REST STATION Date: March 10, 2003 FOR A LONG DISTANCE AIRLINE FLIGHT

#### **REQUEST FOR CERTIFICATE 'OF CORRECTION**

Commissioner for Patents Washington, D.C. 20231

Dear Sir:

The above-identified patent has been found to have the error set forth in the enclosed Certificate of Correction. Tt. is requested that this Certificate of Correction be issued and Since the error occurred in the application returned to us. phase of the patent, an appropriate fee is enclosed. Should the Office determine that any additional fee is required, please charge our account no. 06-2425.

The error is verifiable in the application file as follows:

<u>Errors</u>

## Application File Location

Title page, in the ABSTRACT, line 6, after "includes", delete "consists".

Original application typographical error in the Abstract, pg. 9, line 5.

03/20/2003 TTRAN2 00000043 6520451 01 FC:1811

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Serial No. 09/947,275 Atty. Docket: BEAFS-58327

A duplicate of this letter is enclosed.

Respectfully submitted, FULWIDER PATTON LEE & UTECHT, LLP

By: James W. Paul Reg. No. 29,967

FULWIDER PATTON LEE & UTECHT, LLP HOWARD HUGHES CENTER 6060 Center Drive, 10th Floor Los Angeles, California 90045 Telephone: (310) 824-5555 Facsimile: (310) 824-9696

> Serial No. 09/947,275 Atty. Docket: BEAFS-58327

PRINTER'S TRIM LINE Staple Here Only ! UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION** PATENT NO. :6,520,451 B1 DATED Feb. 18, 2003 INVENTOR(S) : Brian W. Moore It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below: Title page, Ain-the ABSTRACT, line \$, after "includes" delete /~cons مععه ON TAINS. lowercase MAILING ADDRESS OF SENDER: PATENT NO. \_6,520,451 B1 James W. Paul, Esq. (310) 824-5555 FULWIDER PATTON LEE & UTECHT, LLP No. of add'l copies @ 50¢ per page HOWARD HUGHES CENTER 6060 Center Drive, Tenth Floor LogonAngelanev Galifornia 90045

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Name (Print/Type) James W. Paul		Registra (Attorney	alon No. (gent)	·	29,967	Telephone	310-824-
Signature	11		<u> </u>			Date	03/10/200

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, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

# UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO. DATED

: 6,520,451 B1 : February 18, 2003 INVENTOR(S) : Brian W. Moore

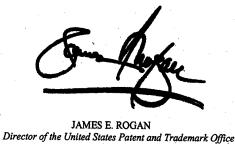
Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page, Item [57], ABSTRACT, Line 6, after "includes" delete "contains."

Signed and Sealed this

Twenty-fourth Day of June, 2003

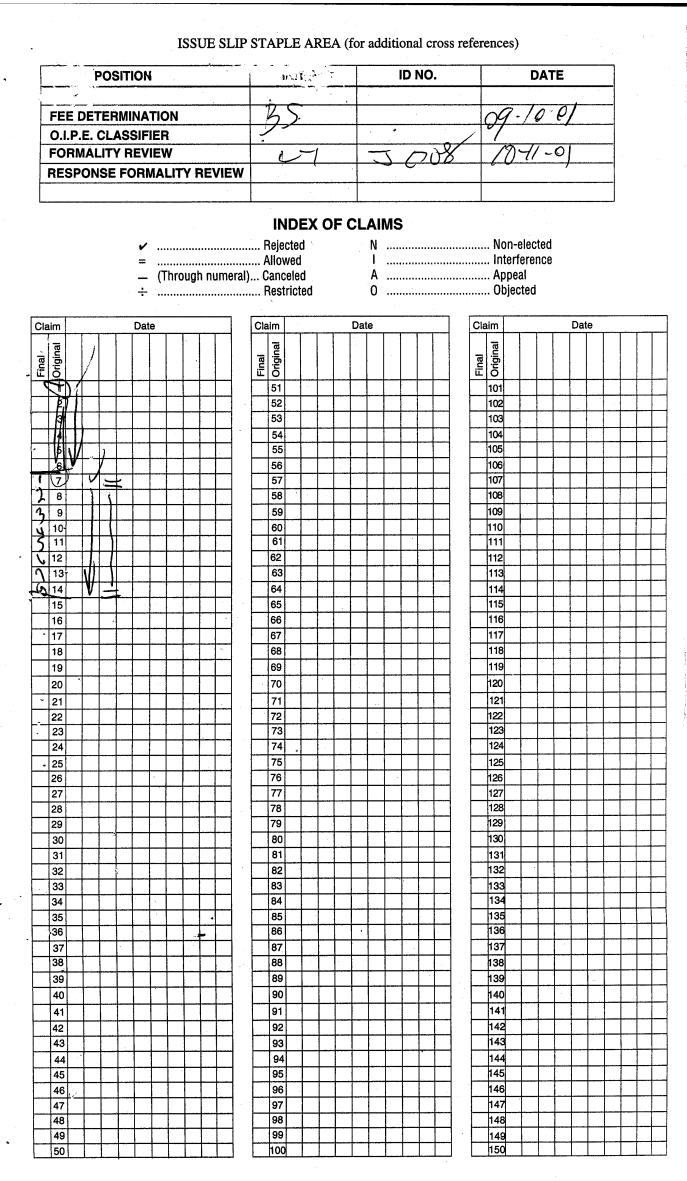


Petitioner C&D Zodiac, Inc. – Exhibit 1009 - Page 125

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Petitioner C&D Zodiac, Inc. – Exhibit 1009 - Page 126

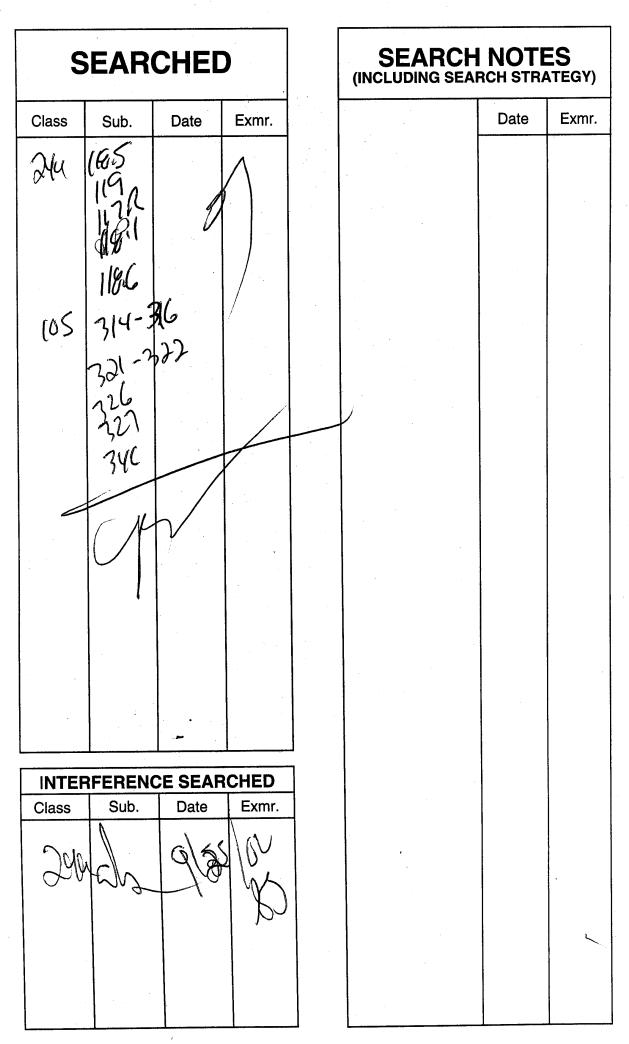
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(RIGHT OUTSIDE) Petitioner C&D Zodiac, Inc. – Exhibit 1009 - Page 129