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FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT	
Correspondent Name and	Address Area Code and Telephone Numb	per (310) 332-5666	
Name Terry J. And	lerson, Esg./NORTHROP GRUMMAN CORPORATI		
Address (line 1) 1840 Century		······································	
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Address (line 3)			
Address (line 4)			
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Bruce B. Brunda	Dr. D. D. Seina	6/13/00	
Name of Person Signin	ig Signature	Date	

PATENT REEL: 010903 FRAME: 0462

NORTH- 405A	A- 2251	ASSIGNMENT	
WHEREAS,	I,Frank Th	eodore Hardy III	, hereinafter referred to as Assignor
together with	John Cha	rles Firm	

ASSIGNMENT

have jointly invented certain new and useful improvements in

PORTABLE HANDRAIL SYSTEM

described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, Northrop Grumman Corporation, a Delaware corporation, having its principal place of business at 1840 Century Park East, Los Angeles, California 90057, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United States Letters Patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the full right to claim for any such application the priority benefits of the International Convention for the Protection of Industrial Property and other priority-conferring treaties, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, divisions, continuations, continuations-in-part, renewals and reissues thereof; and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified. Assignor was under an obligation to assign to Assignee, Assignor's entire right, title and interest in, to and under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith and that Assignee, Northrop Corporation, its successors, assigns and other legal representatives shall have the right to hold and enjoy for its and their own use and benefit, to the end of the term or terms for which such Letters Patent shall or may be granted, reissued or extended as fully and completely as the same might or could have been held and enjoyed by Assignor had this assignment not been made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, legal representatives and assigns, any and all facts known to Assignor respecting said improvements; to promptly provide Assignor with all documents relating to said improvements, said invention, and said Letters Patent as may be known or accessible to Assignor; to testify as to the same in any interference or litigation or other legal proceedings related thereto; to sign all lawful papers, execute all extensions, continuations, continuations-in-part, divisional and reissue applications; and to make all rightful oaths or declarations and generally do everything possible to aid Assignee, its successors, legal representatives and assigns in obtaining and enforcing all the rights herein conveyed for said improvements in all countries without further compensation, but at the expense of Assignee, its successors, legal representatives and assigns.

> PATENT REEL: 010903 FRAME: 0463

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this $215T$ day of MARCH, 392000 and has executed the referenced patent application on the $2/5T$ day of MARCH, 392000 ,
(Assignor) Frank Theodore Hardy III
STATE OF CALFORNIA
COUNTY OF LOS ANGELES) ss
on 131 ARCH 21, 2000 before me,
JOYCE K. CROFT, personally
appeared FRANKT. HARDY 111, personally known to me
or proved to me on the basis of satisfactory evidence to be the person (s) whose name (s) is/are
subscribed to this instrument and acknowledged to me that he/sm:/they
executed the same in his/her/their authorized capacity(tes), and that by his/her/their signature(s)
on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed
the instrument.

WITNESS my hand and official seal



syck croft Signature (Seal)

NORTH- 405A	A- 2251	ASSIGNMENT	
WHEREAS,	I, John Cha	rles Firm	, hereinafter referred to as Assignor
cogether with	Frank Th	eodore Hardy III	
nave jointly in	vented certain	new and useful improvement	cs in

ASSIGNMENT

PORTABLE HANDRAIL SYSTEM

described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, Northrop Grumman Corporation, a Delaware corporation, having its principal place of business at 1840 Century Park East, Los Angeles, California 90067, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United States Letters Patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the full right to claim for any such application the priority benefits of the International Convention for the Protection of Industrial Property and other priority-conferring treaties, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, divisions, continuations, continuations-in-part, renewals and reissues thereof; and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified, Assignor was under an obligation to assign to Assignee, Assignor's entire right, title and interest in, to and under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith and that Assignee, Northrop Corporation, its successors, assigns and other legal representatives shall have the right to hold and enjoy for its and their own use and benefit, to the end of the term or terms for which such Letters Patent shall or may be granted, reissued or extended as fully and completely as the same might or could have been held and enjoyed by Assignor had this assignment not been made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, legal representatives and assigns, any and all facts known to Assignor respecting said improvements; to promptly provide Assignor with all documents relating to said improvements, said invention, and said Letters Patent as may be known or accessible to Assignor; to testify as to the same in any interference or litigation or other legal proceedings related thereto; to sign all lawful papers, execute all extensions, continuations, continuations-in-part, divisional and reissue applications; and to make all rightful oaths or declarations and generally do everything possible to aid Assignee, its successors, legal representatives and assigns in obtaining and enforcing all the rights herein conveyed for said improvements in all countries without further compensation, but at the expense of Assignee, its successors, legal representatives and assigns.

> PATENT REEL: 010903 FRAME: 0465

IN WITNESS WHEREOF, the undersigned has executed a	and delivered this instrument this
23rd day of April , 192000	, and has executed the referenced patent
application on the 23rd day of April	, <u>ts2000</u> .
(Assignor) John Charles Firm STATE OF California) SS	
COUNTY OF LOS Angeles	
on April 23,2000	before me,
Carla Schauer, Notary Public	, personally
appeared John C. Firm	, personally known to me
or proved to me on the basis of satisfactory evidence to	be the person(x) whose name(x) is/ are
subscribed to this instrument and acknowledged to me tha	t he/ shc/they
executed the same in his/her/their authorized capacity(i	es), and that by his/her/their signature()
on the instrument the person(\mathfrak{R} , or the entity upon beha	If of which the person(\mathbf{x}) acted, executed
the instrument.	

(

WITNESS my hand and official seal

Signature Och Schauer

(Seal)

