

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Michael A Carralero</td> <td>12/23/2011</td> </tr> <tr> <td>Priya D Maratukulam</td> <td>12/22/2011</td> </tr> <tr> <td>Ty A Larsen</td> <td>01/04/2012</td> </tr> </tbody> </table>	Name	Execution Date	Michael A Carralero	12/23/2011	Priya D Maratukulam	12/22/2011	Ty A Larsen	01/04/2012	
Name	Execution Date								
Michael A Carralero	12/23/2011								
Priya D Maratukulam	12/22/2011								
Ty A Larsen	01/04/2012								
RECEIVING PARTY DATA									
Name:	The Boeing Company								
Street Address:	100 North Riverside Plaza								
City:	Chicago								
State/Country:	ILLINOIS								
Postal Code:	60606-2016								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13343502</td> </tr> </tbody> </table>	Property Type	Number	Application Number:	13343502					
Property Type	Number								
Application Number:	13343502								
CORRESPONDENCE DATA									
Fax Number:	(208)562-4901								
Phone:	2085624900								
Email:	uspto@parsonsbehle.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	Parsons Behle & Latimer								
Address Line 1:	960 Broadway Ave., Suite 250								
Address Line 4:	Boise, IDAHO 83706								
ATTORNEY DOCKET NUMBER:	19941.001US01								
NAME OF SUBMITTER:	Benjamin E. Hoopes								
Total Attachments: 2 source=002_19941_001US01_Assignment_Signed#page1.tif source=002_19941_001US01_Assignment_Signed#page2.tif									

OP \$40.00 13343502

ASSIGNMENT

Docket No.: 19941.001US01
(11-1312-US-NP)


WHEREAS, Michael A. Carralero, residing at Huntington Beach, CA, Ty A. Larsen, residing at Everett, WA, and Priya D. Marutukulam, residing at Seattle, WA, (hereinafter "Assignor") has invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled "MULTIMODE FIBER INTERROGATOR" for which Assignor is making or has made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignor concurrently herewith;

WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, USA, having a place of business at 100 North Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of PO Box 2515, Mailcode 110-SD54, Seal Beach, CA 90740, USA (hereinafter called "the Assignee"), is desirous of acquiring the entire right, title and interest in and to the Invention within the United States of America and its territorial possessions and all foreign countries, and in and to any United States or foreign LETTERS PATENT that may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assignee, its successors and assigns, the entire right, title and interest in and to the Invention within the United States of America and its territorial possessions and all foreign countries, and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants that may be granted for any and all portions thereof, and in and to the patent application identified above and applications for patent filed for the Invention in all foreign countries and all provisional, divisional, reissue, continuation, continuation-in-part applications and extensions of any of the applications for patent or LETTERS PATENT identified herein, including all applications claiming the priority of said applications for patent or LETTERS PATENT identified herein, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of the United States LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America. Assignee will hold all rights for its own use and benefit and for the use and benefit of its successors or assigns to the full end of the term for which the LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor requests and authorizes the Commissioner of the U.S. Patent and Trademark Office, and foreign counterpart officials of foreign patent offices, to issue respective LETTERS PATENT in the United States and foreign countries when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and noncumbersome title to the Invention, which title Assignor warrants to the Assignee. Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request and expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, releasing or reexamining United States and foreign LETTERS PATENT or the like for the Invention, and for maintaining and perfecting the Assignee's right to the Invention and LETTERS PATENT particularly in cases of interference conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I/We have signed this Assignment on the date specified below:

 10/23/2011
Michael A. Carralero Date

Priya D. Marutukulam Date

Ty A. Larsen Date

ASSIGNMENT

Docket No.: 19941.001US0
(11-1312-US-NF)

WHEREAS, Michael A. Carralero, residing at Huntington Beach, CA, Ty A. Larsen, residing at Everett, WA and Priya D. Maratukulam, residing at Seattle, WA, (hereinafter "Assignor") has invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled "MULTIMODE FIBER INTERROGATOR" for which Assignor is making or has made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignor concurrently herewith;

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assignee, its successors and assigns, the entire right, title and interest in and to the Invention within the United States of America and its territorial possessions and all foreign countries, and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants that may be granted for an and all portions thereof, and in and to the patent application identified above and applications for patent filed for the Invention in all foreign countries and all provisional, divisional, reissue, continuation, continuation-in-part applications and extensions of any of the applications for patent or LETTERS PATENT identified herein, including all applications claiming the priority of said applications for patent or LETTERS PATENT identified herein, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of the United States LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America; Assignee will hold all rights for its own use and benefit and for the use and benefit of its successors or assigns to the full end of the term for which the LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor requests and authorizes the Commissioner of the U.S. Patent and Trademark Office, and foreign counterpart officials of foreign patent offices, to issue respective LETTERS PATENT in the United States and foreign countries when granted, in accordance with this assignment.

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IN TESTIMONY WHEREOF, I/We have signed this Assignment on the date specified below.

Michael A. Carralero

Date

Priya D. Maratukulam

Date

Ty A. Larsen

Date

PATENT

RECORDED 01/04/2012

REEL: 027478 FRAME: 0568