

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Barbara A. Capron	01/18/2008
William McNeely	01/15/2008
Kishan Dholakia	01/18/2008
Antonia Carruthers	01/15/2008

RECEIVING PARTY DATA

Name:	The Boeing Company
Street Address:	100 N. Riverside
City:	Chicago
State/Country:	ILLINOIS
Postal Code:	60606-1596

Name:	UNIVERSITY COURT OF THE UNIVERSITY OF ST. ANDREWS
Street Address:	College Gates, North Street, St. Andrews
City:	Fife
State/Country:	UNITED KINGDOM
Postal Code:	KA16 9AJ

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12036975

CORRESPONDENCE DATA

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Email: mbutler@macpherson-kwok.com
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Address Line 1: 2033 Gateway Place, Suite 400

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Address Line 4: San Jose, CALIFORNIA 95110

ATTORNEY DOCKET NUMBER:

M-16761 US

NAME OF SUBMITTER:

Jeffrey S. Schoenwald

Total Attachments: 2

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ASSIGNMENT

WHEREAS, Barbara A. Capron, residing in **Sammamish, Washington**; and **William McNeely**, residing in **Redmond, Washington**; (hereinafter "Assignor") have invented certain new and useful improvements in **METHOD & APPARATUS FOR CLEARING AN OPTICAL CHANNEL** (hereinafter "invention") for which Assignor is making or has made application for **LETTERS PATENT OF THE UNITED STATES**, which application has been duly executed by Assignor on date(s) listed below.

WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 100 N. Riverside Plaza, Chicago, Illinois 60606-1596, with a mailing address of P.O. Box 2515, M/C WSB-43, Seal Beach, California 90740-1515, (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 any United States or foreign **LETTERS PATENT** that may be granted therefor.

NOW, THEREFORE, for good and valuable considerations, the receipt which is hereby acknowledged, Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assignee 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, and all divisions, reissues, continuations and extensions thereof that may be granted therefor, 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 Patents and Trademarks, US and its foreign counterparts, to issue the **LETTERS PATENT** when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered 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, reissuing 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 have signed this Assignment on the date specified below.

Barbara A. Capron

Barbara A. Capron

1/18/2008

(date)

William McNeely

William McNeely

1/15/2008

(date)

PATENT

REEL: 020557 FRAME: 0316

ASSIGNMENT

WHEREAS, Kishan Dholakia, residing in **St Andrews, Fife, Scotland**; and **Antonia Erika Carruthers**, residing in **Weisdale, Shetland**; (hereinafter "Assignor") have invented certain new and useful improvements in **METHOD & APPARATUS FOR CLEARING AN OPTICAL CHANNEL** (hereinafter "invention") for which Assignor is making or has made application for **LETTERS PATENT OF THE UNITED STATES**, which application has been duly executed by Assignor on date(s) listed below.

WHEREAS, THE UNIVERSITY COURT OF THE UNIVERSITY OF ST ANDREWS, incorporated by the Universities (Scotland) Act 1899, as amended by the Universities (Scotland) Act 1966 and having its principal office at College Gate, North Street, St Andrews, Fife, KA16 9AJ, United Kingdom, (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 any United States or foreign **LETTERS PATENT** that may be granted therefor.

NOW, THEREFORE, for good and valuable considerations, the receipt which is hereby acknowledged, Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assignee 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, and all divisions, reissues, continuations and extensions thereof that may be granted therefor, 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 Patents and Trademarks, US and its foreign counterparts, to issue the **LETTERS PATENT** when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered 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, reissuing 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 have signed this Assignment on the date specified below.

K. Dholakia

Kishan Dholakia

Antonia Carruthers

Antonia Carruthers

18th January 2008

(date)

18 / 01 / 08

(date)

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