

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>Per K. Enge</td> <td>09/19/2012</td> </tr> <tr> <td>David Lawrence</td> <td>09/19/2012</td> </tr> <tr> <td>Michael L. O'Connor</td> <td>09/19/2012</td> </tr> <tr> <td>Michael L. Eglington</td> <td>09/20/2012</td> </tr> <tr> <td>Gregory M. Gutt</td> <td>09/20/2012</td> </tr> <tr> <td>David A. Whelan</td> <td>09/19/2012</td> </tr> </tbody> </table>		Name	Execution Date	Per K. Enge	09/19/2012	David Lawrence	09/19/2012	Michael L. O'Connor	09/19/2012	Michael L. Eglington	09/20/2012	Gregory M. Gutt	09/20/2012	David A. Whelan	09/19/2012
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<table border="1"> <tr> <td>Name:</td> <td>The Boeing Company</td> </tr> <tr> <td>Street Address:</td> <td>100 N. Riverside Plaza</td> </tr> <tr> <td>City:</td> <td>Chicago</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>60606-2016</td> </tr> </table>		Name:	The Boeing Company	Street Address:	100 N. Riverside Plaza	City:	Chicago	State/Country:	ILLINOIS	Postal Code:	60606-2016				
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PROPERTY NUMBERS Total: 1															
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CORRESPONDENCE DATA															
Fax Number:	7606028362														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
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ATTORNEY DOCKET NUMBER:	2-113(12-1086)														

OP \$40.00 13653401

NAME OF SUBMITTER:

Lowell Campbell

Total Attachments: 5

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ASSIGNMENT

Docket No.: 2-113(12-1086)

WHEREAS, Per K. Enge residing at Mountain View, California; David Lawrence residing at Santa Clara, California, Michael L. O'Connor residing at Redwood City, California; Michael L. Eglington residing at San Bruno, California, Gregory M. Gutt residing at Ashburn, Virginia; and David A. Whelan residing at Newport Coast, California; (hereinafter "Assignor") has invented certain new and useful improvements in **SERVER ALGORITHMS TO IMPROVE SPACE BASED AUTHENTICATION** (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, US, having a place of business at 100 N. Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of P.O. Box 2515, M/C 110-SD54, Seal Beach, California 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 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, 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, and all divisions, reissues, continuations, continuation-in-part applications 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.

Per K. Enge (date)

David Lawrence (date)

Michael L. O'Connor (date)



Michael L. Eglington 9/20/2012 (date)

Gregory M. Gutt (date)

David A. Whelan (date)

ASSIGNMENT

Docket No.: 2-113(12-1025)

WHEREAS, Per K. Enge residing at Mountain View, California; David Lawrence residing at Santa Clara, California; Michael L. O'Connor residing at Redwood City, California; Michael L. Eglington residing at San Bruno, California; Gregory M. Gutt residing at Ashburn, Virginia; and David A. Whelan residing at Newport Coast, California; (hereinafter "Assignor") has invented certain new and useful improvements in **SERVER ALGORITHMS TO IMPROVE SPACE BASED AUTHENTICATION** (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, US, having a place of business at 100 N. Riverside Plaza, Chicago, Illinois 60606-2015, with a mailing address of P.O. Box 2515, M/C 110-SD54, Seal Beach, California 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 any United States or foreign **LETTERS PATENT** that may be granted therefor.

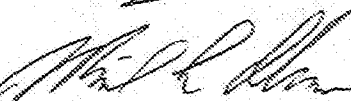
NOW, THEREFORE, for good and valuable considerations, the receipt which is hereby acknowledged, Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assignee, its successors and assigns, the entire right, title and interest in and to the invention within the United States 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, and all divisions, reissues, continuations, continuation-in-part applications 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.

 Sept 19, 2012
Per K. Enge (date)

David Lawrence (date)

 9/19/2012
Michael L. O'Connor (date)

Michael L. Eglington (date)

Gregory M. Gutt (date)

David A. Whelan (date)

ASSIGNMENT

Docket No.: 2-113(12-1086)

WHEREAS, Per K. Enge residing at Mountain View, California; David Lawrence residing at Santa Clara, California, Michael L. O'Connor residing at Redwood City, California; Michael L. Eglington residing at San Bruno, California, Gregory M. Gutt residing at Ashburn, Virginia; and David A. Whelan residing at Newport Coast, California; (hereinafter "Assignor") has invented certain new and useful improvements in **SERVER ALGORITHMS TO IMPROVE SPACE BASED AUTHENTICATION** (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, US, having a place of business at 100 N. Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of P.O. Box 2515, M/C 110-SD54, Seal Beach, California 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 any United States or foreign LETTERS PATENT that may be granted therefor.

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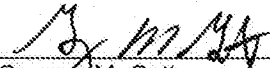
IN TESTIMONY WHEREOF, I have signed this Assignment on the date specified below.

Per K. Enge (date)

David Lawrence (date)

Michael L. O'Connor (date)

Michael L. Eglington (date)



Gregory M. Gutt (date) 9/20/2012

David A. Whelan (date)

ASSIGNMENT

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WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, US, having a place of business at 100 N. Riverside Plaza, Chicago, Illinois 60606-2018, with a mailing address of P.O. Box 2515, M/C 110-SD54, Seal Beach, California 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 any United States or foreign LETTERS PATENT that may be granted therefor.

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Per K. Enge (date)

David Lawrence 2012-09-19

David Lawrence (date)

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David A. Whelan (date)

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WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, US, having a place of business at 100 N. Riverside Plaza, Chicago, Illinois 60606-2016, with a mailing address of P.O. Box 2516, M/C 110-SD54, Seal Beach, California 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 any United States or foreign LETTERS PATENT that may be granted therefor.

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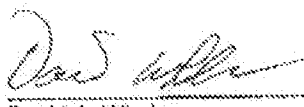
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David Lawrence (date)

Michael L. O'Connor (date)

Michael L. Eglington (date)

Gregory M. Guff (date)

 9/19/12

David A. Whelan (date)