

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>Paramvir Bahl</td><td>07/10/2012</td></tr> <tr><td>Douglas C. Burger</td><td>06/12/2012</td></tr> <tr><td>Ranveer Chandra</td><td>07/12/2012</td></tr> <tr><td>Matthew G. Dyor</td><td>06/18/2012</td></tr> <tr><td>William Gates</td><td>06/25/2012</td></tr> <tr><td>Pablos Holman</td><td>06/12/2012</td></tr> <tr><td>Roderick A. Hyde</td><td>11/26/2012</td></tr> <tr><td>Muriel Y. Ishikawa</td><td>09/14/2012</td></tr> <tr><td>Jordin T. Kare</td><td>07/10/2012</td></tr> <tr><td>Royce A. Levien</td><td>08/30/2013</td></tr> <tr><td>Richard T. Lord</td><td>06/16/2012</td></tr> <tr><td>Robert W. Lord</td><td>06/16/2012</td></tr> <tr><td>Mark A. Malamud</td><td>06/15/2012</td></tr> <tr><td>Craig J. Mundie</td><td>06/12/2012</td></tr> <tr><td>Nathan P. Myhrvold</td><td>06/15/2012</td></tr> <tr><td>Tim Paek</td><td>07/22/2013</td></tr> <tr><td>John D. Rinaldo Jr.</td><td>01/25/2013</td></tr> <tr><td>Desney S. Tan</td><td>06/12/2012</td></tr> <tr><td>Clarence T. Tegreene</td><td>08/02/2012</td></tr> <tr><td>Charles Whitmer</td><td>05/16/2012</td></tr> <tr><td>Lowell L. Wood Jr.</td><td>07/15/2012</td></tr> <tr><td>Victoria Y.H. Wood</td><td>09/09/2012</td></tr> <tr><td>Lin Zhong</td><td>06/18/2012</td></tr> </tbody> </table>		Name	Execution Date	Paramvir Bahl	07/10/2012	Douglas C. Burger	06/12/2012	Ranveer Chandra	07/12/2012	Matthew G. Dyor	06/18/2012	William Gates	06/25/2012	Pablos Holman	06/12/2012	Roderick A. Hyde	11/26/2012	Muriel Y. Ishikawa	09/14/2012	Jordin T. Kare	07/10/2012	Royce A. Levien	08/30/2013	Richard T. Lord	06/16/2012	Robert W. Lord	06/16/2012	Mark A. Malamud	06/15/2012	Craig J. Mundie	06/12/2012	Nathan P. Myhrvold	06/15/2012	Tim Paek	07/22/2013	John D. Rinaldo Jr.	01/25/2013	Desney S. Tan	06/12/2012	Clarence T. Tegreene	08/02/2012	Charles Whitmer	05/16/2012	Lowell L. Wood Jr.	07/15/2012	Victoria Y.H. Wood	09/09/2012	Lin Zhong	06/18/2012
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RECEIVING PARTY DATA																																																	
Name:	Elwha LLC																																																
Street Address:	11235 S.E. 6th Street, Suite 200																																																
City:	Bellevue																																																
State/Country:	WASHINGTON																																																

CH \$40.00 13340512

Postal Code: 98004

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13340512

CORRESPONDENCE DATA

Fax Number: 4252834820

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: saral@intvenls.com

Correspondent Name: The Invention Science Fund

Address Line 1: 11235 S.E. 6th Street, Suite 200

Address Line 4: Bellevue, WASHINGTON 98004

ATTORNEY DOCKET NUMBER: 0711-003-023-000000

NAME OF SUBMITTER: S. Craig Rochester

Signature: /S. Craig Rochester/

Date: 09/05/2013

Total Attachments: 23

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ASSIGNMENT

WHEREAS, I, Paramvir Bahl, (hereinafter referred to as ASSIGNOR), having post office address of 1311 108th Avenue NE, Bellevue, WA 98004 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

July 10, 2012
Date

Paramvir Bahl
Paramvir Bahl

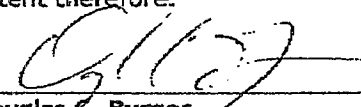
ASSIGNMENT

WHEREAS, I, Douglas C. Burger, (hereinafter referred to as ASSIGNOR), having post office address of 13615 NE 48th Pl, Bellevue, WA 98005-1113 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

8/12/12
Date


Douglas C. Burger

0711-003-023-000000

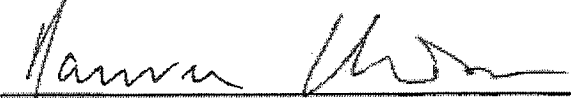
ASSIGNMENT

WHEREAS, I, Ranveer Chandra, (hereinafter referred to as ASSIGNOR), having post office address of 538 Central Way, Apt. #B115, Kirkland, WA 98033 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

12th July, 2012
Date


Ranveer Chandra

ASSIGNMENT

WHEREAS, I, Matthew G. Dyor, (hereinafter referred to as ASSIGNOR), having post office address of 1646 184th Avenue NE, Bellevue, WA 98008 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

6/18/12
Date


Matthew G. Dyor

0711-003-023-000000

ASSIGNMENT

WHEREAS, I, William Gates (hereinafter referred to as ASSIGNOR), having post office address of One Microsoft Way, Redmond, WA 98052-6399 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Date

6/25/12

William Gates



ASSIGNMENT

WHEREAS, I, Pablos Holman (hereinafter referred to as ASSIGNOR), having post office address of 2431 7th Avenue West, Seattle, WA 98119 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

6/12/12

Date



Pablos Holman

ASSIGNMENT

WHEREAS, I, Roderick A. Hyde (hereinafter referred to as ASSIGNOR), having post office address of 9915-161st Avenue N.E., Redmond, WA 98052 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

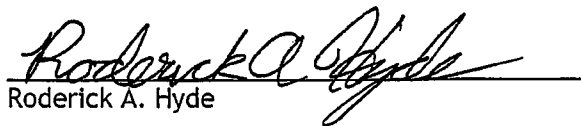
WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Date

11/26/2012

Roderick A. Hyde



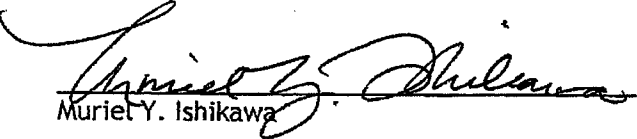
ASSIGNMENT

WHEREAS, I, Muriel Y. Ishikawa (hereinafter referred to as ASSIGNOR), having post office address of 1185 Hillcrest Avenue, Livermore, CA 94550-4921 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

September 14, 2012
Date


Muriel Y. Ishikawa

ASSIGNMENT

WHEREAS, I, Jordin T. Kare (hereinafter referred to as ASSIGNOR), having post office address of 908 15th Ave. East, Seattle, WA 98112 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

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Date

7/10/2012

Jordin T. Kare

ASSIGNMENT

WHEREAS, I, Royce A. Levien, (hereinafter referred to as ASSIGNOR), having post office address of 43 Somerset Road, Lexington, MA 02420-3519 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

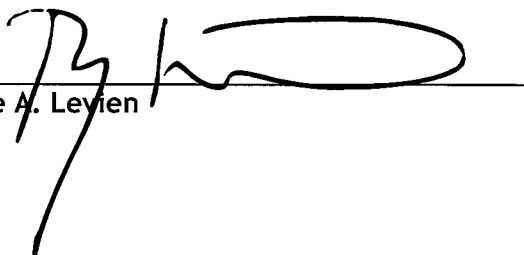
WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

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2013-08-30

Date

Royce A. Levien



ASSIGNMENT

WHEREAS, I, Richard T. Lord, (hereinafter referred to as ASSIGNOR), having post office address of 233 St. Helens Ave., Apt. 513, Tacoma, WA 98402-2585 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

6/16/2012
Date

Richard T. Lord
Richard T. Lord

ASSIGNMENT

WHEREAS, I, Robert W. Lord., (hereinafter referred to as ASSIGNOR), having post office address of 1410-41st Ave. East, Seattle, WA 98112 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

6/16/2012
Date

X
Robert W. Lord

ASSIGNMENT

WHEREAS, I, Mark A. Malamud, (hereinafter referred to as ASSIGNOR), having post office address of Highcastle, 1508 Ninth Avenue West, Seattle, WA 98119 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Date

6/15/12

Mark A. Malamud

ASSIGNMENT

WHEREAS, I, Craig J. Mundie (hereinafter referred to as ASSIGNOR), having post office address of 1209 38th Avenue East, Seattle, WA 98112-4447 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States Letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

6/12/12
Date

CJ Mundie
Craig J. Mundie

ASSIGNMENT

WHEREAS, I, Nathan P. Myhrvold (hereinafter referred to as ASSIGNOR), having post office address of 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

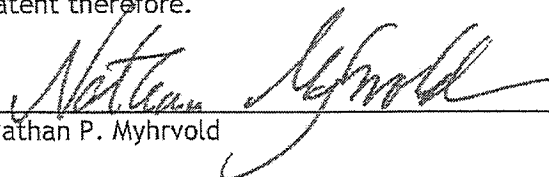
WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Date

June 15, 2012

Nathan P. Myhrvold



ASSIGNMENT

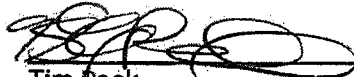
WHEREAS, I, Tim Paek, (hereinafter referred to as ASSIGNOR), having post office address of 21223 SE 35th Way, Sammamish, WA 98075 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

7/22/13

Date



Tim Paek

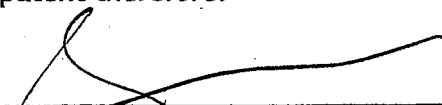
ASSIGNMENT

WHEREAS, I, John D. Rinaldo, Jr., (hereinafter referred to as ASSIGNOR), having post office address of 1560-134th Avenue S.E. #301, Bellevue, WA 98005-8030 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

January 25, 2013
Date



John D. Rinaldo, Jr.

ASSIGNMENT


WHEREAS, I, Desney S. Tan (hereinafter referred to as ASSIGNOR), having post office address of 11514 NE 107th Place, Kirkland, WA 98033 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

12 June, 2012

Date



Desney S. Tan

ASSIGNMENT

WHEREAS, I, Clarence T. Tegreene (hereinafter referred to as ASSIGNOR), having post office address of 10629 NE 17th Street, Bellevue, WA 98004-2834 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Date

8/2/12

Clarence T. Tegreene

0711-003-023-000000

PATENT
REEL: 031145 FRAME: 0647

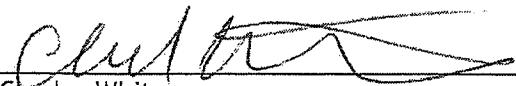
ASSIGNMENT

WHEREAS, I, Charles Whitmer (hereinafter referred to as ASSIGNOR), having post office address of 15509 Uplands Way S.E., North Bend, WA 98045 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

5/16/2012
Date


Charles Whitmer

ASSIGNMENT

WHEREAS, I, Lowell L. Wood, Jr. (hereinafter referred to as ASSIGNOR), having post office address of 989 112th Avenue NE #2310, Bellevue, WA 98004 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Date

15 July 2012

Lowell L. Wood, Jr.

Lowell L. Wood, Jr.

ASSIGNMENT

WHEREAS, I, Victoria Y.H. Wood (hereinafter referred to as ASSIGNOR), having post office address of 1185 Hillcrest Avenue, Livermore CA 94550-4921 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

September 9, 2012

Date

Victoria Y.H. Wood

Victoria Y.H. Wood

ASSIGNMENT

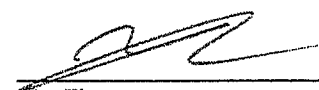
WHEREAS, I, Lin Zhong (hereinafter referred to as ASSIGNOR), having post office address of 3510 Deal Street, Houston, TX 77025 am the joint inventor of an invention entitled "Computational Systems and Methods for Locating a Mobile Device," as described and claimed in the specification for which an application for United States letters patent was filed on December 29, 2011 and assigned Application No. 13/340,512 ; and

WHEREAS, Elwha LLC, (hereinafter referred to as ASSIGNEE), a limited liability corporation of the State of Delaware, having a place of business at 11235 S.E. 6th Street, Suite 200, Bellevue, WA 98004, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

06/18/12

Date



Lin Zhong