

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3780163

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DANIEL RYAN	08/27/2015
KELBY EDWARD GREEN	08/18/2015
EMANUEL PAUL MALANDRAKIS	08/18/2015
KONSTANTIN KLITENIK	08/18/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ABL IP HOLDING LLC
<b>Street Address:</b>	ONE LITHONIA WAY
<b>City:</b>	CONYERS
<b>State/Country:</b>	GEORGIA
<b>Postal Code:</b>	30012
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15066602
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	610-407-0700
<b>Email:</b>	jallen@ratnerprestia.com
<b>Correspondent Name:</b>	KEITH E. GEORGE
<b>Address Line 1:</b>	RATNERPRESTIA
<b>Address Line 2:</b>	P.O. BOX 980
<b>Address Line 4:</b>	VALLEY FORGE, PENNSYLVANIA 19482
<b>ATTORNEY DOCKET NUMBER:</b>	VLC-146US5
<b>NAME OF SUBMITTER:</b>	KEITH E. GEORGE
<b>SIGNATURE:</b>	/Keith E. George/
<b>DATE SIGNED:</b>	03/10/2016
<b>Total Attachments: 6</b>	
source=assignment#page1.tif	
source=assignment#page2.tif	

source=assignment#page3.tif

source=assignment#page4.tif

source=assignment#page5.tif

source=assignment#page6.tif

ASSIGNMENT

WHEREAS We, Daniel Ryan; Kelby Edward Green; Emanuel Paul Malandrakis; and Konstantin Klitenik of 680 Mission Street, Unit 32T, San Francisco, CA 94105; 265 C Street, Apt. 12, Boston, MA 02127; 11 Grove Street, Apt. 5, Boston, MA 02114; and 27 Wheeler Street, Unit 124, Cambridge, MA 02318, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled SYSTEM AND METHOD FOR ESTIMATING THE POSITION AND ORIENTATION OF A MOBILE COMMUNICATIONS DEVICE IN A BEACON-BASED POSITIONING SYSTEM, for which an application for United States Letters Patent (Application No. 14/823,074) and a Patent Cooperation Treaty International Application (Application No. PCT/US15/44667) were filed on August 11, 2015;

AND WHEREAS, ABL IP HOLDING LLC, a company of the State of Georgia and having an address of One Lithonia Way, Conyers, Georgia 30012 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto ABL IP Holding LLC (Assignee), its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned applications, including the right of priority and including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said Assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor(a) and Assignee;

AND We hereby grant the Assignee, its successors, legal representatives and assigns, the power to insert on this instrument any further identification that may be necessary or desirable to comply with the recordation rules of any appropriate and competent authority, including, without limitation, the United States Patent and Trademark Office.

AND We hereby agree that this Assignment may be executed in two or more counterparts each of which shall be deemed an original but all of which together shall constitute one and the

same instrument.

AND We request the Commissioner for Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said ABL IP Holding LLC, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

08/27/2015  
Date

Dn Ryan  
Daniel Ryan

\_\_\_\_\_  
Date

\_\_\_\_\_  
Kelby Edward Green

\_\_\_\_\_  
Date

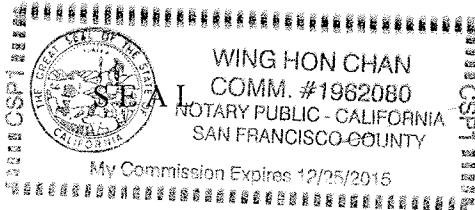
\_\_\_\_\_  
Emanuel Paul Malandrakis

\_\_\_\_\_  
Date

\_\_\_\_\_  
Konstantin Klitenik

STATE OF California )  
 ) SS:  
COUNTY OF San Francisco

On this 27th day of August, 2015, before me personally appeared Daniel Ryan, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



\_\_\_\_\_  
Notary Public

My commission expires DEC 25, 2015.

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2015, before me personally appeared Kelby Edward Green, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2015, before me personally appeared Emanuel Paul Malandrakis, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2015, before me personally appeared Konstantin Klitenik, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

ASSIGNMENT

WHEREAS We, Daniel Ryan; Kelby Edward Green; Emanuel Paul Malandrakis; and Konstantin Klitenik of 680 Mission Street, Unit 32T, San Francisco, CA 94105; 265 C Street, Apt. 12, Boston, MA 02127; 11 Grove Street, Apt. 5, Boston, MA 02114; and 27 Wheeler Street, Unit 124, Cambridge, MA 02318, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled SYSTEM AND METHOD FOR ESTIMATING THE POSITION AND ORIENTATION OF A MOBILE COMMUNICATIONS DEVICE IN A BEACON-BASED POSITIONING SYSTEM, for which an application for United States Letters Patent (Application No. 14/823,074) and a Patent Cooperation Treaty International Application (Application No. PCT/US15/44667) were filed on August 11, 2015;

AND WHEREAS, ABL IP HOLDING LLC, a company of the State of Georgia and having an address of One Lithonia Way, Conyers, Georgia 30012 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto ABL IP Holding LLC (Assignee), its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned applications, including the right of priority and including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said Assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor(a) and Assignee;

AND We hereby grant the Assignee, its successors, legal representatives and assigns, the power to insert on this instrument any further identification that may be necessary or desirable to comply with the recordation rules of any appropriate and competent authority, including, without limitation, the United States Patent and Trademark Office.

AND We hereby agree that this Assignment may be executed in two or more counterparts each of which shall be deemed an original but all of which together shall constitute one and the

same instrument.

AND We request the Commissioner for Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said ABL IP Holding LLC, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date	<u>8/18/2015</u>	Daniel Ryan
Date	<u>8/18/2015</u>	Kelby Edward Green
Date	<u>8/18/15</u>	Emanuel Paul Malandrakis
Date		Konstantin Klitenik

STATE OF MA)  
) SS:  
COUNTY OF \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 2015, before me personally appeared Daniel Ryan, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

\_\_\_\_\_  
Notary Public

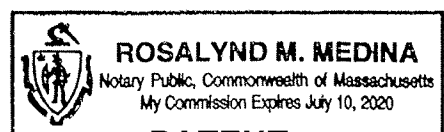
My commission expires \_\_\_\_\_

STATE OF MA)  
) SS:  
COUNTY OF Suffolk)

On this 18<sup>th</sup> day of August, 2015, before me personally appeared Kelby Edward Green, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

[Signature]  
Notary Public



**PATENT**

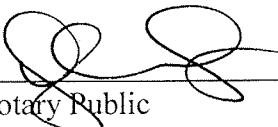
**REEL: 037957 FRAME: 0978**

My commission expires July 10, 2020

STATE OF MA )  
COUNTY OF Suffolk ) SS:

On this 18th day of August, 2015, before me personally appeared Emanuel Paul Malandrakis, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

  
\_\_\_\_\_  
Notary Public

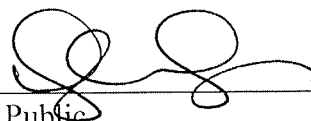
My commission expires July 10, 2020

STATE OF MA )  
COUNTY OF Suffolk ) SS:



On this 18th day of August, 2015, before me personally appeared Konstantin Klitenik, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

  
\_\_\_\_\_  
Notary Public

My commission expires July 10, 2020

