

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2751662

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>HELMARS E OZOLINS</td> <td>01/14/2014</td> </tr> <tr> <td>SEAN ROARTY</td> <td>01/14/2014</td> </tr> <tr> <td>AVRAM KAUFMAN</td> <td>01/14/2014</td> </tr> <tr> <td>CHRISTOPHER WILLIAM ZIMMAN</td> <td>01/02/2014</td> </tr> <tr> <td>STANISLAW SKOWRONEK</td> <td>01/02/2014</td> </tr> <tr> <td>MASAMICHI UDAGAWA</td> <td>12/11/2013</td> </tr> <tr> <td>ANTENNA DESIGN NEW YORK INC.</td> <td>12/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	HELMARS E OZOLINS	01/14/2014	SEAN ROARTY	01/14/2014	AVRAM KAUFMAN	01/14/2014	CHRISTOPHER WILLIAM ZIMMAN	01/02/2014	STANISLAW SKOWRONEK	01/02/2014	MASAMICHI UDAGAWA	12/11/2013	ANTENNA DESIGN NEW YORK INC.	12/11/2013
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RECEIVING PARTY DATA																	
<table border="1"> <tr> <td>Name:</td> <td>BLOOMBERG FINANCE LP</td> </tr> <tr> <td>Street Address:</td> <td>731 LEXINGTON AVENUE</td> </tr> <tr> <td>City:</td> <td>NEW YORK</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10022</td> </tr> </table>		Name:	BLOOMBERG FINANCE LP	Street Address:	731 LEXINGTON AVENUE	City:	NEW YORK	State/Country:	NEW YORK	Postal Code:	10022						
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CORRESPONDENCE DATA																	
Fax Number:	(212)588-0500																
Phone:	2125880800																
Email:	prosecutiondocketing@flhlaw.com																
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>																	
Correspondent Name:	FROMMER LAWRENCE & HAUG LLP																
Address Line 1:	745 FIFTH AVENUE																
Address Line 4:	NEW YORK, NEW YORK 10151																

PATENT

ATTORNEY DOCKET NUMBER:	336001-2183/2183.1/2183.2
NAME OF SUBMITTER:	FRANK DEROSA
Signature:	/Frank DeRosa/
Date:	03/04/2014
Total Attachments: 9 source=01405283#page1.tif source=01405283#page2.tif source=01405283#page3.tif source=01405283#page4.tif source=01405283#page5.tif source=01405283#page6.tif source=01405283#page7.tif source=01405283#page8.tif source=01405283#page9.tif	

## ASSIGNMENT

WHEREAS I, Helmars E. OZOLINS, a citizen of US, residing in Orient, NY, Sean ROARTY, a citizen of US, residing in Ossining, NY, Avram KAUFMAN, a citizen of US, residing in New York, NY, Christopher William ZIMMAN, a citizen of US, residing in New York, NY, and Stanislaw SKOWRONEK, a citizen of Poland, residing in New York, NY (hereinafter, individually and collectively, together with my heirs, executors, administrators and legal representatives referred to as "Assignor"), together with Masamichi UDAGAWA, am a listed inventor on, and have invented one or more inventions (hereinafter referred to as "said Inventions") disclosed in, United States Patent Applications titled KEYBOARD, which were executed by me on the date of execution of this Assignment (hereinafter referred to as "said Applications"), said Applications being assigned the following application numbers and filing dates, which I authorize and request be inserted by the attorney(s) filing this Assignment for recording in the United States Patent and Trademark Office:

Application No. 29/468,239, filed September 27, 2013;

Application No. 29/468,243, filed September 27, 2013; and

Application No. 29/468,249, filed September 27, 2013; and

WHEREAS, Bloomberg Finance L.P. (hereinafter together with its successors and assigns referred to as "Assignee"), a limited partnership organized and existing under the laws of Delaware, having a place of business at 731 Lexington Avenue, New York, New York 10022, is desirous of obtaining all right, title and interest in, to and under said Invention(s) and said Applications; and

WHEREAS, Assignee is a subsidiary of Bloomberg L.P., a limited partnership organized and existing under the laws of Delaware, having a place of business at 731 Lexington Avenue, New York, New York 10022, and Assignor is employed by Bloomberg L.P. or a subsidiary thereof (Bloomberg L.P. and its subsidiaries collectively referred to hereinafter as "BLP," and Assignor's employment by BLP referred to hereinafter as "said Employment").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which Assignor hereby acknowledges, Assignor has sold, assigned, transferred and set over, and by these presents hereby sells, assigns, transfers and sets over to Assignee, its lawful successors and assigns, all of Assignor's right, title and interest in, to and under said Invention(s) and said Applications, including (a) the right to apply for patents in the United States of America, in all foreign countries and in international and regional patent offices and authorities (hereinafter referred to as "Foreign Countries") for said Invention(s), (b) all applications for patents for said Invention(s) or based on said Applications in the United States and all Foreign Countries, now filed or to be filed, including all provisional, non-provisional, divisional, renewal, substitute, continuation, continuation-in-part, international and convention applications based in whole or in part upon said Invention(s) or upon said Applications, (c) all patents which may issue on said Invention(s) and on any applications transferred by this Assignment in the United States and all Foreign Countries, and any and all reissues, extensions, divisions, renewals, substitutes,

continuations, continuations-in-part and post-grant certificate review, inter partes review and reexamination certificates of patents granted for said Invention(s) or upon such applications, for the full term or terms for which the patents may be issued, and (d) every priority right that is or may be predicated upon or arise from said Invention(s), said Applications and such patents under any applicable international or bilateral treaty, agreement or convention. Assignor hereby authorizes Assignee to file patent applications in the United States and all Foreign Countries for any or all of said Invention(s) in Assignor's name or names, or in Assignee's name, or otherwise as Assignee may deem advisable, under any international or bilateral treaty, agreement or convention, or otherwise.

Assignee agrees to indemnify and defend Assignor from and against all claims, law suits, expenses, liabilities, awards, damages, judgments, sanctions, or losses ("Claims") which Assignor may incur or to which Assignor may become subject and which relate to or arise out of Assignee's or BLP's use of said Invention(s). Assignee also agrees to reimburse Assignor for all expenses (including reasonable counsel fees) as they are incurred by Assignor in defending against or providing evidence relating to any such Claims; provided that Assignee shall have the exclusive right to select counsel to defend Assignor against any such Claims. Assignee shall have no indemnification or defense obligation to Assignor with respect to any action arising out of Assignor's breach of contract, bad faith, willful or reckless misconduct, or arising out of the violation of any written policy, procedure or instruction of said Employment, or to the extent that the Claims arise as a result of Assignor's conduct outside the ordinary course of said Employment. Assignor hereby agrees promptly to notify Assignee in the event Assignor receives actual notice of any such Claims. Assignor also agrees to cooperate with Assignee in Assignee's defense against Claims by making himself available at reasonable times and reasonable places to representatives of Assignee and/or Assignee's legal counsel.

Assignor hereby covenants and agrees that Assignor will, upon reasonable request of Assignee, subject to Assignor's prior commitments, and without further consideration but at the expense of the Assignee, communicate any facts known to Assignor relating to said Invention(s) and the history thereof, testify in any legal proceeding, execute all lawful papers required to effect the foregoing, and generally do all further acts which may be deemed necessary by Assignee to obtain and enforce proper patent protection for said Invention(s) in the United States and all Foreign Countries.

Assignor hereby covenants and agrees that Assignor has the full right to convey the interest(s) assigned by this Assignment, and has not and will not execute any assignment, sale, license, agreement, or encumbrance that is, will be, or may reasonably be interpreted to be, in conflict with this Assignment.

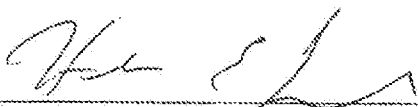
If any part of this Assignment shall be held by a court of competent jurisdiction to be void, invalid or inoperative, the remaining provisions of this Assignment shall not be affected and shall continue in effect, and the invalid provision shall be deemed modified to the least degree necessary to remedy such invalidity.

This Assignment shall be deemed to be made in the State of New York, and shall be governed by and construed and interpreted in accordance with the laws of the United States and the State of New York. Any action arising hereunder shall be brought in New York State courts

in New York County or in the federal court in the Southern District of New York. The parties hereby stipulate that jurisdiction and venue are proper in the Courts of the State of New York in and for New York County, and in the United States District Court for the Southern District of New York.

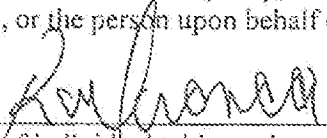
IN TESTIMONY WHEREOF, Assignor has executed this document on the date indicated below.

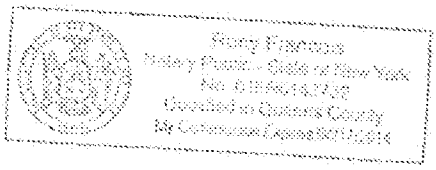
Date: 1/14/14

  
\_\_\_\_\_  
Helmars E. Ozolins (Signature)

STATE OF NEW YORK            )  
  )    ss.:  
COUNTY OF NEW YORK        )

On 1/14/14, before me, the undersigned, personally appeared, Helmars E. Ozolins, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

  
\_\_\_\_\_  
Signature of individual taking acknowledgment  
Notary Stamp



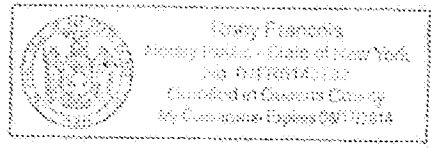
Date: 1/14/14

[Signature]  
Sean Roarty (Signature)

STATE OF NEW YORK )  
 ) ss:  
COUNTY OF NEW YORK )

On 1/14/14, before me, the undersigned, personally appeared, Sean Roarty, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

[Signature]  
Signature of individual taking acknowledgment  
Notary Stamp



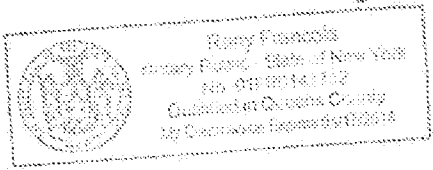
Date: 1/13/14

[Signature]  
Avram Kaufman (Signature)


STATE OF NEW YORK )  
 ) ss:  
COUNTY OF NEW YORK )

On 1/14/14, before me, the undersigned, personally appeared, Avram Kaufman, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

[Signature]  
Signature of individual taking acknowledgment  
Notary Stamp

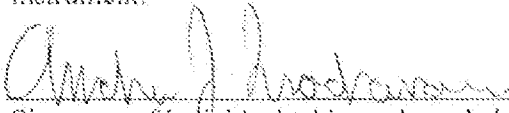


Date: 1/2/2014

  
Christopher William Zimman (Signature)

STATE OF NEW YORK     )  
  )     ss.:  
COUNTY OF NEW YORK    )

On January 2, 2014, before me, the undersigned, personally appeared, Christopher William Zimman, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

  
Signature of individual taking acknowledgment  
Notary Stamp

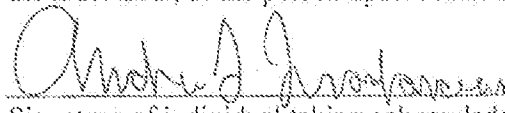
ANDREW J. TROCHANOWSKI  
Notary Public - State of New York  
No. 01TR6250592  
Qualified in New York County  
Commission Expires Oct. 31, 2015

Date: 01/02/2014

  
Stanislaw Skowronek (Signature)

STATE OF NEW YORK     )  
  )     ss.:  
COUNTY OF NEW YORK    )

On January 2, 2014, before me, the undersigned, personally appeared, Stanislaw Skowronek, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

  
Signature of individual taking acknowledgment  
Notary Stamp

ANDREW J. TROCHANOWSKI  
Notary Public - State of New York  
No. 01TR6250592  
Qualified in New York County  
Commission Expires Oct. 31, 2015

## ASSIGNMENT

WHEREAS, I, Masamichi UDAGAWA, a citizen of Japan, residing at New York, NY (hereinafter, together with my heirs, executors, administrators and legal representatives referred to herein as "UDAGAWA"), together with Helmars E. OZOLINS, Sean ROARTY, Avram N. KAUFMAN, Christopher William ZIMMAN and Stanislaw SKOWRONEK have invented one or more inventions (hereinafter referred to as "said invention(s)") disclosed in United States Patent Applications titled KEYBOARD, executed by me on the date of execution of this Assignment (hereinafter referred to as "said Applications"), said Applications being assigned the following application number(s) and filing date(s), which I authorize and request be inserted by the attorney(s) filing this Assignment for recording in the United States Patent and Trademark Office:

Application No. 29/468,239, filed September 27, 2013;

Application No. 29/468,243, filed September 27, 2013; and

Application No. 29/468,249, filed September 27, 2013; and

WHEREAS, UDAGAWA is, and was at the time of the conception of said Invention(s), a consultant to, principal of, or otherwise employed by, and/or may be or have been under some other obligation to, Antenna Design New York Inc., a corporation having a place of business at 119 West 23rd Street, Suite 800, New York, NY 10011 (which corporation, together with its successors and assigns, is hereinafter referred to as "ANTENNA DESIGN"; and which corporation, together with its successors and assigns and with UDAGAWA, is hereinafter referred to as "Assignor");

WHEREAS ANTENNA DESIGN, may own some right, title, and/or interest in and to said Invention(s) and said Applications, by virtue of UDAGAWA's consultancy, principalship, employment, operation of law, and/or other obligation; and

WHEREAS, Bloomberg Finance LP (hereinafter together with its successors and assigns referred to as "Assignee"), a limited partnership organized and existing under the laws of Delaware, having a place of business at 731 Lexington Avenue, New York, New York 10022, is desirous of obtaining all right, title and interest in, to and under said Invention(s) and said Applications.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which Assignor hereby acknowledges, Assignor has sold, assigned, transferred and set over, and by these presents hereby sells, assigns, transfers and sets over to Assignee, its lawful successors and assigns, all of Assignor's right, title and interest in, to and under said Invention(s) and said Application(s), including (a) the right to apply for patents in the United States of America, in all foreign countries and in international and regional patent offices and authorities (hereinafter referred to as "Foreign Countries") for said Invention(s), (b) all applications for patents for said Invention(s) or based on said Application(s) in the United States and all Foreign Countries, now filed or to be filed, including all provisional, non-provisional, divisional, renewal, substitute,



continuation, continuation-in-part, international and convention applications based in whole or in part upon said Invention(s) or upon said Application(s), (c) all patents which may issue on said Invention(s) and on any applications transferred by this Assignment in the United States and all Foreign Countries, and any and all reissues, extensions, divisions, renewals, substitutes, continuations, continuations-in-part and post-grant certificate review, inter partes review and reexamination certificates of patents granted for said Invention(s) or upon such applications, for the full term or terms for which the patents may be issued, and (d) every priority right that is or may be predicated upon or arise from said Invention(s), said Application(s) and such patents under any applicable international or bilateral treaty, agreement or convention. Assignor hereby authorizes Assignee to file patent applications in the United States and all Foreign Countries for any or all of said Invention(s) in Assignor's name or names, or in Assignee's name, or otherwise as Assignee may deem advisable, under any international or bilateral treaty, agreement or convention, or otherwise.

ANTENNA DESIGN hereby consents to and joins in assignment by UDAGAWA of any and all of ANTENNA DESIGN's and UDAGAWA's right, title and interest in, to, and under said Invention(s) and said Applications to Assignee.

Assignor hereby covenants and agrees that Assignor will, upon reasonable request of Assignee, subject to Assignor's prior commitments, and without further consideration but at the expense of the Assignee, communicate any facts known to Assignor relating to said Invention(s) and the history thereof, testify in any legal proceeding, execute all lawful papers required to effect the foregoing, and generally do all further acts which may be deemed necessary by Assignee to obtain and enforce proper patent protection for said Invention(s) in all countries.

Assignee agrees to indemnify and defend Assignor from and against all claims, law suits, expenses, liabilities, awards, damages, judgments, sanctions, or losses ("Claims") which Assignee may incur or to which Assignor may become subject and which relate to or arise out of Assignee's use of the said invention(s). Assignee also agrees to reimburse Assignor for all expenses (including reasonable counsel fees) as they are incurred by Assignor in defending against or providing evidence relating to any such Claims; provided that Assignee shall have the exclusive right to select counsel to defend Assignor against any such Claims. Assignee shall have no indemnification or defense obligation to Assignor with respect to any action involving Assignor's breach of contract, bad faith, willful or reckless misconduct, or with respect to violation of any policy, procedure, or instruction, of Assignee, or to the extent that the Claims arise as a result of or relate to Assignor's conduct outside the ordinary course of any employment of Assignor by Assignee. Assignor hereby agrees promptly to notify Assignee in the event Assignor receives actual notice of any such Claims. Assignor also agrees to cooperate with Assignee in Assignee's defense against Claims by making himself / herself / themselves available at reasonable times and reasonable places to representatives of Assignee and/or Assignee's legal counsel.

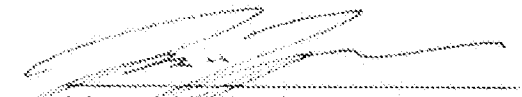
This Assignment may be executed in several counterparts, each of which will be an original, but all of which, when taken together, will constitute one and the same instrument.

If any part of this Assignment shall be held by a court of competent jurisdiction to be void, invalid or inoperative, the remaining provisions of this Assignment shall not be affected and shall continue in effect, and the invalid provision shall be deemed modified to the least degree necessary to remedy such invalidity.

This Agreement shall be deemed to be made in the State of New York, and shall be governed by and construed and interpreted in accordance with the laws of the United States and the State of New York. Any action arising hereunder shall be brought in state or federal court in the Southern District of New York. The parties hereby stipulate that jurisdiction and venue are proper in the Courts of the State of New York in and for New York County, and in the United States District Court for the Southern District of New York.

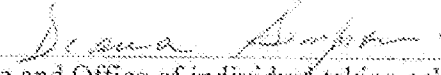
IN TESTIMONY WHEREOF, Assignor has executed this document on the date(s) indicated below.

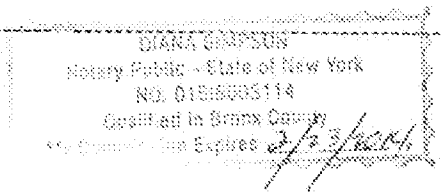
Date: 12/11/2013

  
Masamichi UDAGAWA

STATE OF NEW YORK    )  
  ) ss.:  
COUNTY OF NEW YORK )

On Dec. 11, 2013, before me, the undersigned, personally appeared Masamichi UDAGAWA, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

  
Signature and Office of individual taking acknowledgment  
Notary Stamp



ANTENNA DESIGN NEW YORK INC.

Date: 12/11/2013

By: *Masamichi UDAGAWA*  
Masamichi UDAGAWA, President

STATE OF NEW YORK    )  
  ) ss.:  
COUNTY OF NEW YORK )

On Dec 11, 2013, before me, the undersigned, personally appeared Masamichi UDAGAWA personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

*Diana Saper*

Signature and Office of individual taking acknowledgment  
Notary Stamp

