

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>Jihoon Kang</td> <td>07/17/2013</td> </tr> <tr> <td>Yong Choi</td> <td>07/17/2013</td> </tr> <tr> <td>Jin Ho Jung</td> <td>07/17/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jihoon Kang	07/17/2013	Yong Choi	07/17/2013	Jin Ho Jung	07/17/2013
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Jihoon Kang	07/17/2013								
Yong Choi	07/17/2013								
Jin Ho Jung	07/17/2013								
RECEIVING PARTY DATA									
Name:	Industry-University Cooperation Foundation Sogang University								
Street Address:	Sogang Univ., 1-1 Sinsu-dong, Mapo-gu								
City:	Seoul								
State/Country:	KOREA, REPUBLIC OF								
Postal Code:	121-742								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13988619</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13988619				
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Application Number:	13988619								
CORRESPONDENCE DATA									
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	054101/433667								
NAME OF SUBMITTER:	R. Flynt Strean								
Signature:	/RFlynt Strean/								

Date:

08/07/2013

Total Attachments: 4

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ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

**INDUSTRY-UNIVERSITY COOPERATION FOUNDATION
SOGANG UNIVERSITY**

Sogang Univ., 1-1 Sinsu-dong, Mapo-gu
Seoul 121-742,
Republic of Korea

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"MULTICHANNEL DETECTOR HAVING A REDUCED NUMBER OF OUTPUT CHANNELS"**

as set forth in this United States Patent Application

- executed concurrently herewith
- executed on
- Application No. 13/988,619; filed May 21, 2013.
- Application claims priority from PCT Application No. PCT/KR2011/007948, filed on October 25, 2011, which claims priority to Korean Application No. 10-2010-0116444, filed November 22, 2010, all applications listed above being hereinafter referred to as the "application(s)";

(We hereby authorize and request the Assignee and its attorney (Alston & Bird LLP) to insert above the application number and filing date of said application when known.)

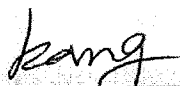
said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and

could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as November 22, 2010.

July 17, 2013
Date


Jihoon Kang

Witness Print

Date

Witness Sign

Witness Print

Witness Sign

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July 17, 2013
Date

Yong Choi
Yong Choi

Date

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Attorney Docket No. 054101/433667