

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LUIS RUBEN SOARES	09/11/2017
BEN PUTTNAM	09/11/2017
MENDINUETA JOSE MANUEL DELGADO	09/11/2017
YOSHINARI AWAJI	09/11/2017
NAOYA WADA	09/25/2017
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<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	1848795
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15565419
<b>CORRESPONDENCE DATA</b>	
Fax Number:	
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	1703P091US
<b>NAME OF SUBMITTER:</b>	JACE CHEONG
<b>SIGNATURE:</b>	/jace cheong/
<b>DATE SIGNED:</b>	10/09/2017

**Total Attachments: 3**

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ASSIGNMENT OF INVENTION

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In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the sufficiency and receipt of which are hereby acknowledged, and for the other good and valuable consideration,

**ASSIGNOR:**

SOARES, Luis Ruben

c/o National Institute of Information and Communications Technology, 4-2-1 Nukui-Kitamachi, Koganei-shi, Tokyo 1848795 Japan

PUTTNAM, Ben

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WADA, Naoya

c/o National Institute of Information and Communications Technology, 4-2-1 Nukui-Kitamachi, Koganei-shi, Tokyo 1848795 Japan

hereby sell, assign and transfer to

**ASSIGNEE:**

NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS  
TECHNOLOGY

4-2-1 Nukui-Kitamachi, Koganei-shi, Tokyo 1848795 Japan

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to all improvements which are disclosed in the invention entitled:

POLARIZATION INSENSITIVE SELF-HOMODYNE DETECTION RECEIVER FOR  
SPATIAL-DIVISION MULTIPLEXING SYSTEMS

☐ which has been executed by the undersigned concurrently herewith

☒ which was filed on Oct 9, 2017 and assigned Serial No. 15/565,419

and, in and to all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, substitute, reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We hereunto set hand and seal

9/11/2017

Date

Ruben Soares Lora

SOARES, Luis Ruben

11th September 2017

Date

Ben Puttnam

PUTTNAM, Ben

11 Sep. 2017

Date

DELGADO, Mendinueta Jose Manuel

DELGADO, Mendinueta Jose Manuel

                      
Date

AWAJI, Yoshinari  
AWAJI, Yoshinari

25 Sep 2017

Date

Naoya Wada

WADA, Naoya

and, in and to all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, substitute, reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We hereunto set hand and seal

\_\_\_\_\_  
Date

\_\_\_\_\_  
SOARES, Luis Ruben

\_\_\_\_\_  
Date

\_\_\_\_\_  
PUTTNAM, Ben

\_\_\_\_\_  
Date

\_\_\_\_\_  
DELGADO, Mendinueta Jose Manuel

Sep. 11, 2017  
Date

渡路 祥成  
AWAJI, Yoshinari

\_\_\_\_\_  
Date

\_\_\_\_\_  
WADA, Naoya