

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5542856

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DOYOUNG JUNG	04/26/2019
YIBIN SUN	05/07/2019
JUNG-MIN MOON	04/25/2019
INGIL BAEK	04/26/2019
JUNHEE JEONG	04/26/2019
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16464509
CORRESPONDENCE DATA	
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>	
Phone:	202-293-0804
Email:	usdocketing@jeffersonip.com
Correspondent Name:	JEFFERSON IP LAW, LLP
Address Line 1:	1130 CONNECTICUT AVE., NW, SUITE 420
Address Line 4:	WASHINGTON, D.C. 20036
ATTORNEY DOCKET NUMBER:	0202-1519
NAME OF SUBMITTER:	JAMES J. LIVINGSTON
SIGNATURE:	/James J. LIVINGSTON/
DATE SIGNED:	05/28/2019
Total Attachments: 10	
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source=0202-1519 Assignment As Filed#page4.tif
source=0202-1519 Assignment As Filed#page5.tif
source=0202-1519 Assignment As Filed#page6.tif
source=0202-1519 Assignment As Filed#page7.tif
source=0202-1519 Assignment As Filed#page8.tif
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source=0202-1519 Assignment As Filed#page10.tif

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

1) Doyoung JUNG, 2) Yibin SUN, 3) Jung-Min MOON, 4) Ingil BAEK, and 5) Junhee JEONG

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 04/25/2019, 04/26/2019 and 05/07/2019

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address: _____

Street Address: 129, Samsung-ro, Yeongtong-gu

City: Suwon-si, Gyeonggi-do

State: _____

Country: Republic of Korea Zip: 16677

Additional name(s) & address(es) attached? Yes No

4. Application or patent number(s):

A. Patent Application No.(s)
16/464,509

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Jefferson IP Law, LLP

Internal Address: James J Livingston

Street Address: 1130 Connecticut Ave., NW, Suite 420

City: Washington

State: District of Columbia Zip: 20036

Phone Number: 202-293-0804

Fax Number: 202-403-3587

Email Address: usdocketing@jeffersonip.com

6. Total number of applications and patents involved: One

- 7. Total fee (37 CFR 1.21(h) & 3.41) \$** _____
- Authorized to be charged by credit card
 - Authorized to be charged to deposit account
 - Enclosed
 - None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

/James J. LIVINGSTON/ Reg. #55,394
Signature

May 28, 2019
Date

James J Livingston
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 10

Assignment

WHEREAS, the following inventors, namely 1) Doyoung JUNG, 2) Yibin SUN, 3) Jung-Min MOON, 4) Ingil BAEK, and 5) Junhee JEONG (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

DEVICE AND METHOD FOR DETECTING BEAM MISALIGNMENT IN WIRELESS COMMUNICATION SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on May 28, 2019, and assigned Serial No. 16/464,509; and,

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 16677 (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein;

NOW, THEREFORE, BE IT KNOWN that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and all other foreign countries, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any other foreign country application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

Assignors covenant and agree, without further compensation to said Assignors but at Assignee's expense:

- a. to execute:
 - i. all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignee may deem necessary or expedient, and
 - ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;

DOCKET NO.: 0202-1519
CLIENT REF.: SP17050-PCT/US_DMC
SAMSUNG REF.: NG-201606-009-1-US0

- b. to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;
- c. to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and
- e. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

Assignors each hereby represents, covenants and warrants that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon Assignors' heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with Customer No. 68103 the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

DOCKET NO.: 0202-1519
CLIENT REF.: SP17050-PCI/US_DMC
SAMSUNG REF.: NG-201606-009-1-US0

Signature of Inventor:

Jung, doyoung

Doyoung JUNG

April 26, 2019

Date

Signature of Inventor:

Yibin SUN

Date

Signature of Inventor:

Jung-Min MOON

Date

Signature of Inventor:

Ingil in pil

Ingil BAEK

April 26, 2019

Date

Signature of Inventor:

Junhee JEONG

Junhee JEONG

26 April, 2019

Date

Assignment

WHEREAS, the following inventors, namely 1) Doyoung JUNG, 2) Yibin SUN, 3) Jung-Min MOON, 4) Ingil BAEK, and 5) Junhee JEONG (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

DEVICE AND METHOD FOR DETECTING BEAM MISALIGNMENT IN WIRELESS COMMUNICATION SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on May 28, 2019, and assigned Serial No. 16/464,509; and,

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 16677 (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein;

NOW, THEREFORE, BE IT KNOWN that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and all other foreign countries, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any other foreign country application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

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 - ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;

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- b. to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;
- c. to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and
- e. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title.

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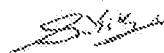
DOCKET NO.: 0202-1519
CLIENT REF.: SP17050-PCT/US_DMC
SAMSUNG REF.: NG-201606-009-1-US0

Signature of Inventor:

Doyoung JUNG

Date

Signature of Inventor:



Yibin SUN

May 07, 2019
Date

Signature of Inventor:

Jung-Min MOON

Date

Signature of Inventor:

Ingil BAEK

Date

Signature of Inventor:

Junhee JEONG

Date

Assignment

WHEREAS, the following inventors, namely 1) Doyoung JUNG, 2) Yibin SUN, 3) Jung-Min MOON, 4) Ingil BAEK, and 5) Junhee JEONG (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

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CLIENT REF.: SP17050-PCT/US DMC
SAMSUNG REF.: NG-201606-009-1-US0

Signature of Inventor:

Doyoung JUNG

Date

Signature of Inventor:

Yibin SUN

Date

Signature of Inventor:

Jung-Min Moon

Jung-Min MOON

April 25, 2019

Date

Signature of Inventor:

Ingil BAEK

Date

Signature of Inventor:

Junhee JEONG

Date