504641891 11/14/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HAN-NA LIM	10/23/2017
HYUNG-HO LEE	09/18/2017
JUNG-SHIN PARK	09/18/2017
JOO-HYUNG LEE	10/31/2017
JIN-SUNG LEE	09/18/2017

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:	15574032

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 202-293-0804

Email:usdocketing@jeffersonip.comCorrespondent Name:JEFFERSON IP LAW, LLP

Address Line 1: 1130 CONNECTICUT AVE., NW, SUITE 420

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER: 0201-1873

NAME OF SUBMITTER: JAMES J LIVINGSTON

SIGNATURE: /James J LIVINGSTON/

DATE SIGNED: 11/14/2017

Total Attachments: 10

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PATENT REEL: 044123 FRAME: 0244

EPAS ID: PAT4688611

504641891

PATENT REEL: 044123 FRAME: 0245

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	S ONLY	
To the Director of the U.S. Patent and Trademark Office: Pleas	se record the attached documents or the new address(es) below.	
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)	
1) Han-Na LIM; 2) Hyung-Ho LEE; 3) Jung-Shin PARK; 4) Joo-Hyung LEE; and 5) Jin-Sung LEE	Name: Samsung Electronics Co., Ltd.	
	Internal Address:	
A. Patent Application No.(s) 15/574,032	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 document is being filed together with a new application. B. Patent No.(s)	
5. Name and address to whom correspondence	6. Total number of applications and patents	
concerning document should be mailed:	involved: One	
Name: Jefferson IP Law, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$	
Internal Address: James J Livingston	Authorized to be charged by credit card	
	Authorized to be charged to deposit account	
Street Address: 1130 Connecticut Ave., NW, Suite 420	Enclosed	
	None required (government interest not affecting title)	
City: Washington	8. Payment Information	
State: DC Zip:20036	a. Credit Card Last 4 Numbers Expiration Date	
Phone Number: 202-293-0804		
Fax Number: <u>202-403-3587</u>	b. Deposit Account Number Authorized User Name	
Email Address: usdocketing@jeffersonip.com		
9. Signature: /James J LIVINGSTON/ Reg. N	lo. 55,394 November 14, 2017	
Signature	Date	
	Total number of pages including cover sheet, attachments, and documents:	

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CLIENT REF.: P22643 -US/DMC

SAMSUNG REF.: MJ-201501-044-1-US0

Assignment

WHEREAS, the following inventors, namely, 1) Han-Na LIM a citizen of Republic of Korea, 2) Hyung-Ho LEE a citizen of Republic of Korea, 3) Jung-Shin PARK a citizen of Republic of Korea, 4) Joo-Hyung LEE a citizen of Republic of Korea, 5) Jin-Sung LEE a citizen of Republic of Korea (hereinafter called "Assignors"), having made or discovered certain new, useful and non-ob vious improvements in an invention having a working title of:

METHOD AND APPARATUS FOR SETTING INITIAL WINDOW VALUE 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 November 14, 2017, and assigned Serial No. 15/574,032; 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 foreign, 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 foreign 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:
 - 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
 - all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional,

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continuing, substitute or reissue application thereof, as may be necessary or expedient;

- 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.

Signature of Inventor: Han-Na LIM Signature of Inventor: Hyung-Ho LEE Date Signature of Inventor: Jung-Shin PARK Date Signature of Inventor: Joo-Hyung LEE Date

DOCKET NO:0201-1873 CLIENT REF.: P22643 -US/DMC SAMSUNG REF.: MJ-201501-044-1-US0

Signature of Inventor:

Jin-Sung LEE

Date

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Signature of Inventor:		
	Han-Na LIM	Date
Signature of Inventor:		
	Hyung-Ho LEE	Date
Signature of Inventor:		
	Jung-Shin PARK	Date
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Signature of Inventor:	Joanyung We	11.10 21
	Joshyung Lee Joo-Hyung LEE	
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Signature of Inventor:		
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	Jin-Sung LEE	Date

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SAMSUNG REF.: MJ-201501-044-1-US0

	Han-Na LJM	Date
Signature of Inventor:	Hyung-Ho LEE	September, 18, 201
Signature of Inventor:	Jung-Shin PARK	Sept. 18, 2017) Date
Signature of Inventor:	Joo-Hyung LEE	
Signature of Inventor:	Jin-Sung LEÉ	20/1. 9. /8 Date

RECORDED: 11/14/2017