503362377 06/23/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3408999

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HONG WANG	06/19/2015
LIXIANG XU	06/19/2015
XIAOWAN KE	06/19/2015

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	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14747409

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0203-1653	
NAME OF SUBMITTER:	MAENG-HO SHIN	
SIGNATURE:	/Maeng-Ho SHIN/	
DATE SIGNED:	06/23/2015	

Total Attachments: 4

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PATENT 503362377 REEL: 035884 FRAME: 0628

Form **PTO-1595** (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)

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) 2. Name and address of receiving party(ies) Name: Samsung Electronics Co., Ltd. 1) Hong WANG, 2) Lixiang XU, and 3) Xiaowan KE Internal Address: Additional name(s) of conveying party(ies) attached? Yes 🖊 No 3. Nature of conveyance/Execution Date(s): Street Address: 129, Samsung-ro, Yeongtong-gu Execution Date(s) 06/19/2015 Merger ✓ Assignment City: Suwon-si, Gyeonggi-do ☐ Security Agreement ☐ Change of Name __ Joint Research Agreement Government Interest Assignment Country: Republic of Korea Zip: Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? Yes No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) 14/747,409 Additional numbers attached? Yes V No 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: Maeng-Ho Shin Authorized to be charged by credit card Authorized to be charged to deposit account **Enclosed** Street Address: 1130 Connecticut Ave., NW, Suite 420 None required (government interest not affecting title) 8. Payment Information City: Washington a. Credit Card Last 4 Numbers _____ State: DC Zip:20036 Expiration Date _____ Phone Number: 202-293-0804 b. Deposit Account Number Fax Number: 202-403-3587 Authorized User Name _____ Email Address: usdocketing@jeffersonip.com 9. Signature: /Maeng-Ho SHIN/ Reg. No. 53,859 June 23, 2015 Signature Date Total number of pages including cover Maeng-Ho Shin Maeng-Ho Shin Name of Person Signing 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

REEL: 035884 FRAME: 0629

DOCKET NO.: 0203-1653

CLIENT REF.: YPF201506-0007/US_DMC SAMSUNG REF.: WC-201409-093-1-US0

<u>Assignment</u>

WHEREAS, the following inventors, namely 1) Hong WANG, 2) Lixiang XU, and 3) Xiaowan KE, all, citizens of China (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

METHOD AND APPARATUS OF ASSIGNING DATA TO SPLIT BEARERS IN DUAL CONNECTIVITY.

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on June 23, 2015, and assigned Serial No. 14/747,409; 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, 443-742 (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 coverant 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 Assignce may deem necessary or expedient, and

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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;
- 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 bereby 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.

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CLIENT KEF.: YPF201506-0007/US_DMC SAMSUNG REF.: WC-201409-093-1-US0

Signature of Inventor:

June 19, 2015

Signature of Inventor: June 19, 2015 Li Viang Xu Lixiang XU

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