505184354 11/09/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5231123

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SEUNG CHANG BAEK	11/09/2018
HYEONG SAM SON	11/09/2018
CHANG JIN SONG	11/09/2018
CHANG HYEOK SHIN	11/09/2018
SUNG HO CHO	11/09/2018
CHONG KUN CHO	11/09/2018
HAN GYU HWANG	11/09/2018
MIN WOO YOO	11/09/2018

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:	16300397

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:	0210-0311
NAME OF SUBMITTER:	JOSHUA H. SGUEO
SIGNATURE:	/Joshua H. SGUEO/

PATENT 505184354 REEL: 047464 FRAME: 0618

DATE SIGNED:	11/09/2018
Total Attachments: 4	
source=0210-0311 Assignment As Filed#page1.tif	
source=0210-0311 Assignment As Filed#page2.tif	
source=0210-0311 Assignment As Filed#page3.tif	
source=0210-0311 Assignment As Filed#page4.tif	

PATENT REEL: 047464 FRAME: 0619

	ORM COVER SHEET	
PATENT	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) Seung Chang BAEK; 2) Hyeong Sam SON; 3) Chang Jin SONG; 4) Chang Hyeok SHIN; 5) Sung Ho CHO; 6) Chong Kun	Name: Samsung Electronics Co., Ltd.	
CHO; 7) Han Gyu HWANG; and 8) Min Woo YOO	Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) November 9, 2018 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): This A. Patent Application No.(s) 16/300,397	Street Address: 129, Samsung-ro, Yeongtong-gu City: Suwon-si, Gyeonggi-do State: Country: Republic of Korea Zip: Additional name(s) & address(es) attached? Yes No document is being filed together with a new application. B. Patent No.(s)	
Additional numbers at 5. Name and address to whom correspondence concerning document should be mailed:	ached? Yes No 6. Total number of applications and patents involved: One	
Name: Jefferson IP Law, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$	
Internal Address: Joshua H. Sgueo	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	b. Deposit Account Number	
Fax Number: 202-403-3587		
Email Address: usdocketing@jeffersonip.com	Authorized User Name	
9. Signature: /Joshua H. SGUEO/ Reg. No Signature	. 67,154 November 9, 2018 Date	
Joshua H. Sgueo Name of Person Signing	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

REEL: 047464 FRAME: 0620

DOCKET NO: 0210-0311

CLIENT REF.; 2017-OPSE-9911/US SAMSUNG REF.; GM-201612-040-1-US0

Assignment

WHEREAS, the following inventors, namely 1) Seung Chang BAEK, 2) Hyeong Sam SON, 3) Chang Jin SONG, 4) Chang Hyeok SHIN, 5) Sung Ho CHO, 6) Chong Kun CHO, 7) Han Gyu HWANG, and 8) Min Woo YOO (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

ELECTRONIC DEVICE INCLUDING THIN HOUSING, AND MANUFACTURING METHOD THEREFOR.

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on November 9, 2018, and assigned Serial No. 16/300,397; 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:

- 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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PATENT REEL: 047464 FRAME: 0621 DOCKET NO.: 0210-0311

CLIENT REF.: 2017-OPSE-9911/US SAMSUNG REF.: GM-201612-040-1-US0

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;
- 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
- c. 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: 0210-0311

CLIENT REF.: 2017-OPSE-9911/US SAMSUNG REF.: GM-201612-040-1-US0

Signature of Inventor:	Song Chang Back	Nov. 7, 248
	Seung Chang BAEK	Date
Signature of Inventor:	Hydra <i>l Chim Sar</i> Hydrig Sam SON	<u>Něv. V. Acis</u> Date
Signature of Inventor:	Chars In Sory Chang Jin SONG	
Signature of Inventor:	John Hyek Silv Chang Hyeok SHIN	λίου, 4, 2ε(8. Daie
Signature of Inventor:	Sung No Cho Sung No CHO	NoU . 9.>=/8 Date
Signature of Inventor:	Chorg kin CHO Chong Kun CHO	<u> </u>
Signature of Inventor:	Marty hwar/ Han Gyu HWANG	- VOV 4, 2015 Date
Signature of Inventor:	Min Woo YOO	<u>Nov. 7, 20</u> 18 Date

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