503948826 08/05/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3995482

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEON KUK	01/18/2016
EUN-BONG HAN	01/18/2016
YOUNG-DAE KO	01/18/2016
HYEON-HYANG KIM	01/18/2016
O-HYUN BEAK	01/18/2016
JUN-HEE LEE	01/18/2016
YEON-KYOUNG JUNG	01/18/2016

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:	15229981

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.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:	0503-0183
NAME OF SUBMITTER:	ELIZABETH GEMMELL
SIGNATURE:	/Elizabeth GEMMELL/
DATE SIGNED:	08/05/2016

Total Attachments: 4

PATENT REEL: 039357 FRAME: 0524

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> PATENT REEL: 039357 FRAME: 0525

RECORDATION FO	RM COVER SHEET		
PATENT	S ONLY		
To the Director of the U.S. Patent and Trademark Office: Pleas	e 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) Keon KUK, 2) Eun-bong HAN, 3) Young-dae KO, 4) Hyeon-hyang KIM, 5) O-hyun BEAK, 6) Jun-hee LEE, and	Name: Samsung Electronics Co., Ltd.		
7) Yeon-kyoung JUNG	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) 01/18/2016			
Assignment Merger			
Security Agreement Change of Name	City: Suwon-si, Gyeonggi-do		
Joint Research Agreement	State:		
Government Interest Assignment	Country: Republic of Korea Zip:		
Executive Order 9424, Confirmatory License			
Other 4. Application or patent number(s): This	Additional name(s) & address(es) attached? Yes Yes Nodocument is being filed together with a new application.		
15/229,981 Additional numbers at	ached? Yes No		
5. Name and address to whom correspondence concerning document should be mailed:	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:Maeng-Ho SHIN	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		
Phone Number:202-293-0804	Expiration Date		
Fax Number: <u>202</u> -403-3587	b. Deposit Account Number		
Email Address: usdocketing@jeffersonip.com	Authorized User Name		
9. Signature: /Maeng-Ho SHIN/ Reg. #5	3,859 August 5, 2016		
Signature	Date		
Maeng-Ho SHIN 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: 039357 FRAME: 0526

DOCKET NO.: 0503-0183

CLIENT REF.: OEC/9500/US_DMC SAMSUNG REF.: MF-201502-002-1-US0

Assignment

WHEREAS, the following inventors, namely 1) Keon KUK, 2) Eun-bong HAN, 3) Young-dae KO, 4) Hyeon-hyang KIM, 5) O-hyun BEAK, 6) Jun-hee LEE, and 7) Yeon-kyoung JUNG, all, citizens of the Republic of Korea (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

OBJECT FORMING APPARATUS AND CONTROLLING METHOD THEREOF,

for which a United States Patent	Application is being	filed concurrently here	ewith or, if not being	g.
for which a United States Patent concurrently filed, was filed or	August 5, 2016	, and	assigned Serial No	, 15/229,981
; 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, continuing, substitute or reissue application thereof, as may be necessary or expedient;

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DOCKET NO.: 0503-0183

CLIENT REF.: OEC/9500/US_DMC SAMSUNG REF.: MF-201502-002-1-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.

CLIENT REF.: OEC/9500/ SAMSUNG REF.: MF-201		
Signature of Inventor:	La Lecer Keon KUK	2016/1/18 Date
	Keon KUK	Date
Signature of Inventor:	Eun-Lorg Han Eun-bong HAN	
	ran-nong rais	Date
Signature of Inventor:	Young dae Co Young-dae KO	<u> 2016-01-18</u> Date
Signature of Inventor:	Hyeon-hyang KIM Hyeon-hyang KIM	296-0)-16 Date
Signature of Inventor:	O HYUM Beak O-hyun BEAK	2016-01-18 Date
	O-nyun BEAK	Date
Signature of Inventor:	Jun her Lee	2016-01-18
	Jun-hee LEE	Date
Signature of Inventor:	Jung, Tealsoury Yeon-kyoung JUNG	2-016-01-(A
	Yeon-kyoung JUNG	Date

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