502709954 03/06/2014

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2756559

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the FIFTH INVENTOR'S NAME previously recorded on Reel 028542 Frame 0354. Assignor(s) hereby confirms the FIFTH INVENTOR'S NAME SHOULD READ "HONG, JONG-WON".

CONVEYING PARTY DATA

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JI-SOON PARK	06/18/2012
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JONG-WON HONG	06/18/2012
HEI-SEUNG KIM	06/18/2012

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PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13533653	

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ATTORNEY DOCKET NUMBER: 2557-001751-US

502709954 REEL: 032399 FRAME: 0564

PATENT

NAME OF SUBMITTER:	JOHN A, CASTELLANO, REG. NO. 35,094
Signature:	/John A. Castellano/
Date:	03/06/2014
Total Attachments: 5 source=2014-03-06 Request for Corrected NOR#page1.tif source=2014-03-06 Request for Corrected NOR#page2.tif source=2014-03-06 Request for Corrected NOR#page3.tif source=2014-03-06 Request for Corrected NOR#page4.tif source=2014-03-06 Request for Corrected NOR#page5.tif	

PATENT REEL: 032399 FRAME: 0565

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Form PTO-1595 (Rev. 03-11) DMB No. 0651-0027 (exp. 03/31/2012)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
RECORDATION FOR	
PATENTS	ONLY
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.
Name of conveying party(ies):	2. Name and address of receiving party(ies)
In-sun Park (06/18/2012), Gil-heyun Choi (06/18/2012), Ji-soon Park (06/18/2012), Jong-	Name: Samsung Electronics Co., Ltd.
myeong Lee (06/18/2012), Jong-won Hong (06/18/2012), and Hei-seung Kim (06/18/2012) Additional name(s) of conveying party(ies) attached? Yes X No	Internal Address: Street Address:
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): in parentheses after inventor name X Assignment Merger Change of Name	129, Samsung-ro, Yeongtong-gu
Security Agreement Joint Research Agreement	City: Suwon-si, Gyeonggi-do
Government Interest Assignment	State:
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip: 443-742
Other	Additional name(s) & address(es) Yes X No attached?
A. Patent Application No.(s) 13/533,653 Additional numbers attached?	B. Patent No.(s)
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: John A. Castellano HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Atty. Dkt.: 2557-001751/US	
Street Address: P.O. Box 8910	X Authorized to be charged to deposit account
	Enclosed None required (government interest not affecting title)
City: Reston	8. Payment Information
State: VA Zip: 20195	
Phone Number: (703) 668-8000	00.0750
Fax Number: (703) \$68,8200 Email Address: dcmail foom@adp.com	Deposit Account Number 08-0750 Authorized User Name John A, Castellano
9. Signature:	June 26, 2012
Signature John A. Castellano - 35,094 Name of Person Signing	Date Total number of pages including cover sheet, attachments, and documents: 3

JAC/bh

ASSIGNMENT

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

METHOD OF FORMING MICROPATTERN, METHOD OF FORMING DAMASCENE METALLIZATION, AND SEMICONDUCTOR DEVICE AND SEMICONDUCTOR MEMORY DEVICE FABRICATED USING THE SAME

for which Assignor is about to make or has made United States or International application for patent

(a)	executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
(b)	executed on,; or
(c)	filed on, and assigned Serial No or PCT International Application No; and

WHEREAS, Samsung Electronics Co., Ltd., 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright riahts:

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Page 1 of 2

ASSIGNMENT

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08/18/20/2 Dated
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Gulheyun Choj
Gil-neyun Choi
06/18/2012 Dated
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Jong Myeong Lee Jong-myeong Lee
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Dated
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06/18/2012

RECORDED: 03/06/2014

Dated