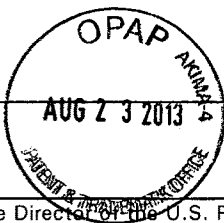


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- 1.) Moon Sun SHIN
- 2.) Jae Youn CHO
- 3.) Jin Gyun KIM
- 4.) Yeon Seob YOON

2. Name and Address of receiving party:

**SAMSUNG ELECTRONICS CO., LTD.**  
**129, Samsung-ro, Yeongtong-gu,**  
**Suwon-si, Gyeonggi-do 443-742**  
**Republic of Korea**

3. Nature of conveyance:

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Execution Date(s): August 19, 2013

4. Application number(s) or patent number(s):

☐ This document is being filed together with a new application.  
OR

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- (a) Patent Application No(s). 13/973,239, filed August 22, 2013; or
- (b) Patent No(s).

5. Name and address of party to whom correspondence concerning document should be mailed:

STAAS & HALSEY LLP  
Attention: Gregory W. Harper  
1201 New York Ave., N.W., 7th Floor  
Washington, D.C. 20005

Our Docket: 2294.1828

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment)

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8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)

Gregory W. Harper, Reg. No. 55,248  
Name of Person Signing

Gregory W. Harper  
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5411 1/00

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

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129, Samsung-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do 443-742  
Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled  
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
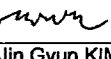

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1)	 Moon Sun SHIN	August 19, 2013	_____
2)	 Jae Youn CHO	August 19, 2013	_____
3)	 Jin Gyun KIM	August 19, 2013	_____
4)	 Yeob Seob YOON	August 19, 2013	_____

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