

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | |
|---|--|---------------|----------------|---------------------|------------|--------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | |
| CONVEYING PARTY DATA | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Youngri KIM</td> <td>04/04/2013</td> </tr> <tr> <td>Seongil HAHM</td> <td>04/04/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Youngri KIM | 04/04/2013 | Seongil HAHM | 04/04/2013 |
| Name | Execution Date | | | | | | |
| Youngri KIM | 04/04/2013 | | | | | | |
| Seongil HAHM | 04/04/2013 | | | | | | |
| 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 | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13872696</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13872696 | | |
| Property Type | Number | | | | | | |
| Application Number: | 13872696 | | | | | | |
| CORRESPONDENCE DATA | | | | | | | |
| Fax Number: | 2024033587 | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | |
| Phone: | 202-293-0804 | | | | | | |
| Email: | usdocketing@jeffersonip.com | | | | | | |
| Correspondent Name: | Jefferson IP Law | | | | | | |
| Address Line 1: | 1130 Connecticut Ave., NW | | | | | | |
| Address Line 2: | Suite 420 | | | | | | |
| Address Line 4: | Washington, DISTRICT OF COLUMBIA 20036 | | | | | | |
| ATTORNEY DOCKET NUMBER: | 0203-1040 | | | | | | |
| NAME OF SUBMITTER: | George C. Eckert | | | | | | |
| Signature: | /George C. ECKERT/ | | | | | | |
| Date: | 04/29/2013 | | | | | | |
| Total Attachments: 3 source=0203-1040AssignmentAsFiled#page1.tif source=0203-1040AssignmentAsFiled#page2.tif source=0203-1040AssignmentAsFiled#page3.tif | | | | | | | |

OP \$40.00 13872696

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)
 1) Youngri KIM, and 2) Seongil HAHM

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
 Name: Samsung Electronics Co., Ltd.
 Internal Address: _____

 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

3. Nature of conveyance/Execution Date(s):
 Execution Date(s) April 4, 2013

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 document is being filed together with a new application.

A. Patent Application No.(s)
13/872,696

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
 Name: Jefferson IP Law, LLP
 Internal Address: George Eckert

 Street Address: 1130 Connecticut Ave., NW, Suite 420

 City: Washington
 State: DC Zip: 20036
 Phone Number: 202-293-0804
 Fax Number: 202-403-3587
 Email Address: usdocketing@jeffersonip.com

6. Total number of applications and patents involved: One

7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____

Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
 Expiration Date _____

b. Deposit Account Number _____
 Authorized User Name _____

9. Signature: _____ /George C. ECKERT/ Reg. No. 58,892 _____ April 29, 2013
 Signature Date

George C. Eckert
 Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

DOCKET NO.: 0203-1040

CLIENT DOCKET NO.: YPF201202-0026/US_DMC

- 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.

Signature of Inventor:

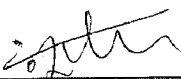


Youngri KIM

April 4, 2013

Date

Signature of Inventor:



Seongil HAHM

April 4, 2013

Date