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DA

To the Director of the U.S. Patent and Trademark Office: Please record the attached.

Names of conveying parties:

- 1) Yul Kyo CHUNG
- 2) Doo Hwan LEE
- 3) Seung Eun LEE
- 4) Yee Na SHIN

2. Name and Address of receiving party:

SAMSUNG ELECTRO-MECHANICS CO., LTD.
150, Maeyong-ro, Yeongtong-gu, Suwon,
Gyeonggi-do, Republic of Korea
443-743

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other: _____
- Merger
- Change of Name

Execution Date(s): October 21, 2013

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

This document is being filed together with a new application.

OR

This document is being filed after filing of the application:

- (a) Patent Application No(s). 14/092,331, filed November 27, 2013; or
- (b) Patent No(s). , issued .

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

STAAS & HALSEY LLP Our Docket: 1952.1433
 Attention: David M. Pitcher
 1201 New York Ave., N.W., 7th Floor
 Washington, D.C. 20005

6. Total number of applications and patents involved: 1

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

- Enclosed
- Authorized to be charged to credit card.
- Authorized to be charged to deposit account.

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

David M. Pitcher, Reg. No. 25,908
 Name of Person Signing

12/17/2013 KNGUYEN1 00000021 14092331
 01 FC:0921 40.00 OP

David M Pitcher December 9, 2013
 Signature Date

Total number of pages including cover sheet: 3

Docket No.

U.S. ASSIGNMENT

SAH703

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))

SAMSUNG Electro-Mechanics Co., Ltd.
150, Maeyeong-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do
Republic of KOREA
Postal code: 443-743

(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
(Title of Invention)

ELECTRONIC COMPONENT EMBEDDED SUBSTRATE AND MANUFACTURING METHOD THEREOF

relating to International Patent Application PCT/___/_____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____; (Insert date of execution of application, if not concurrent)

(b) filed on _____


Serial No. ___/_____

Any registered attorney of STAAS & HALSEY LLP, 1201 New York Ave., N.W., Suite 700, Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.


and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

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)

1)  _____ 10.21.2013
CHUNG, Yul Kyo

2)  _____ 10.21.2013
LEE, Doo Hwan

3)  _____ 10.21.2013
LEE, Seung Eun

4)  _____ 10.21.2013
SHIN, Yee Na