

U.S. PTO  
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To the Director of the U.S. Patent and Trademark



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U.S. DEPARTMENT OF COMMERCE

1. Name of conveying party(ies):  
(1) Jung-Hwan PARK  
(2) Keungjin SOHN  
(3) Joon-Sik SHIN  
(4) Sang-Youp LEE  
(5) Ho-Sik PARK  
(6) Joung-Gul RYU
2. Name and Address of receiving party(ies):  
SAMSUNG ELECTRO-MECHANICS CO., LTD.  
314, Maetan3-Dong, Yeongtong-Gu, Suwon,  
Gyunggi-Do, KOREA 443-743
3. Nature of conveyance:  
☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other: \_\_\_\_\_  
Execution Date(s): (1), (2), (3), (4), (5), (6), November 20, 2007
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)., filed ; or  
(b) Patent No(s)., issued .
5. Name and address of party to whom correspondence concerning document should be mailed:  
STAAS & HALSEY LLP  
Attention: David M. Pitcher  
1201 New York Ave., N.W., Suite 700  
Washington, D.C. 20005  
Our Docket: 1937.1155
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 deposit account.
8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)  
(Attach duplicate copy of this page if paying by deposit account)

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

David M. Pitcher  
Signature

January 28, 2008  
Date

Total number of pages including cover sheet: 3

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PATENT  
REEL: 020503 FRAME: 0908

## U.S. ASSIGNMENT

Docket No.

S&H 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))

SAMSUNG ELECTRO-MECHANICS CO., LTD.  
314, Maetan3-Dong, Yeongtong-Gu, Suwon,  
Gyeonggi-Do, KOREA 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)

### PRINTED CIRCUIT BOARD AND MANUFACTURING METHOD OF THE SAME

relating to International Patent Application PCT/JP\_\_\_\_/\_\_\_\_\_, 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 Avenue, 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)

(Typed Name & Signature of Witness(es))

1) 박정환 Nov. 20, 2007  
Jung-Hwan PARK

2) Sohn, Keung Sin Nov. 20, 2007  
Keungjin SOHN

3) Joon-Sik SHIN Nov. 20, 2007

4) Sang-Yoon LEE Nov. 20, 2007

PATENT

REEL: 020503 FRAME: 0909

5) 107 3045 Nov. 20, 2007

Ho-Sik PARK

6) 280m Nov. 20, 2007

Joung-Gul RYU