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Attorney Docket No.: 8753P111

To the Director of the United State

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attached original documents or copy thereof.

1. Name of conveying party(ies):

CHO, Won Woo; YANG, Dek Gin; CHONG, Myung Gun; KIM, Jung Soo, and KIM, Hyung Ho.

Additional name(s) of conveying party(ies) attached?

☒ No ☐ Yes

3. Nature of Conveyance

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date(s): 12/21/2009, 12/21/2009,
12/21/2009, 12/21/2009, 12/21/2009

2. Name and address of receiving party(ies):

Name: SAMSUNG ELECTRO-MECHANICS CO., LTD.

Internal Address:

Street Address: 314, Maetan 3-dong,

Yeongtong-gu, Suwon,

City: Gyeonggi-do State/Province: Zip: 443-743

Country: Republic of Korea

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

12/650,482

Additional numbers attached? ☐ Yes ☒ No

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

Name: Blakely, Sokoloff, Taylor & Zafman LLP

Internal Address:

Street Address: 1279 Oakmead Parkway

Sunnyvale, California 94085-4040

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit Account Number:

02-2666

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert B. O'Rourke Reg. No. 46,972

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Signature

Date

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Based on Form PTO-1595 as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 05/09/03

PATENT

REEL: 024054 FRAME: 0263

ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 8753.P111

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, CHO, Won Woo. YANG, Dek Gin. CHONG, Myung Gun
KIM, Jung Soo. KIM, Hyung Ho,
hereby sell, assign, and transfer to _____

a _____ corporation of SAMSUNG ELECTRO-MECHANICS CO., LTD.
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at 314, Maetan 3-dong, Yeongtong-gu, Suwon,
Gyeonggi-do 443-743, Korea

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled PRINTED CIRCUIT BOARD INCLUDING ELECTROMAGNETIC BANDGAP STRUCTURE

_____ said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 12/650,482 filed December 30, 2009,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

