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Attorney's Docket No. 030681-901

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jae-hee CHO
Jong-kyu KIM
Cheol-soo SONE
E. Fred SCHUBERTAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒
- Assignment
- ☐
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- Change of Name
-
- ☐
- Other

Execution Date: December 27, 2005

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

Name:

- 1) SAMSUNG ELECTRONICS CO., LTD.
-
- 2) RENSSELAER POLYTECHNIC INSTITUTE

Address:

1) 416, Maetan-dong, Yeongtong-gu
Suwon-si, Gyeonggi-do
Republic of Korea2) 110 8th Street
Troy, New York
United States of America 12180-3590Additional name(s) & addresses 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: December 27, 2005

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Charles F. Wieland III

Address:

Buchanan Ingersoll PC
Including attorneys from Burns, Doane, Swecker & Mathis
Customer Number 2 1 8 3 9
P.O. Box 1404
Alexandria, VA 22313-14046. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ \$40.00 (8021)

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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.*Charles F. Wieland III
Name of Person Signing33,096
Reg. No.
SignatureDecember 28, 2005
DateTotal number of pages including cover sheet, attachments, and documents: 3

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PATENT
REEL: 017421 FRAME: 0458

ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by (1) Jae-hee CHO, (2) Jong-kyu KIM, (3) Cheol-soo SONE, and (4) E. Fred SCHUBERT, residing at (1) Yongin-si, Republic of Korea; (2) Troy, New York; (3) Anvang-si, Republic of Korea; and (4) Troy, New York (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in LED DEVICE HAVING DIFFUSE REFLECTIVE SURFACE set forth in an application for Letters Patent of the United States, which is a

- (1) ☐ provisional application
 - (a) ☐ bearing Application No. _____, and filed on _____;
 - (b) ☐ to be filed herewith; or
- (2) ☒ non-provisional application
 - (a) ☐ bearing Application No. _____, and filed on _____;
 - (b) ☒ having an oath or declaration executed on even date herewith prior to filing of application;
 - (c) ☐ having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, SAMSUNG ELECTRONICS CO., LTD. and RENSSELAER POLYTECHNIC INSTITUTE, corporations duly organized under and pursuant to the laws of Republic of Korea and United States of America and having principal places of business at 416, Maetan-dong, Yongsong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, and 110 8th Street, Troy, New York, United States of America 12180-3590, respectively (hereinafter referred to as "the Assignees"), are desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignees, their successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignees, for its own use and behoof and the use and behoof of their successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignees, their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the

Buchanan Ingersoll PC

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Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignees, their successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignees, or the counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any release or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignees, their successors, legal representatives, and assigns, but at the cost and expense of the Assignees, their successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Buchanan Ingersoll PC (including attorneys from Burns, Doane, Swecker & Mathis) to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignees as the Assignees of said invention, the Letters Patent to be issued for the sole use and behoof of the Assignees, their successors, legal representatives, and assigns.

DATE 27 December 2005


JAE-HEE CHO

DATE 27 December 2005


JONG-KYU KIM

DATE 27 December 2005


CHEOL-SOO SONE

DATE 27 December 2005


E. SCHUBERT

Buchanan Ingersoll PC

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