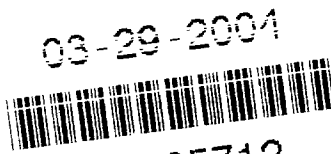


FORM PTO-1595
(Rev. 6/93)

OFFICE OF PUBLIC RECORDS
RECORDATIC



DEPARTMENT OF COMMERCE
Patent and Trademark Office

32504 2004 MAR 25 PM 3:47 PA1

102705712

Attorney Docket No. 5000-1-327

FINANCE SECTION

To the Assistant Commissioner for Patents

1. Name of conveying party(ies):

Tae-Sung PARK; Chan-Youl KIM; Jong-Hun LEE;
Sung-Il SOHN

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

3. Nature of conveyance:

☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Other: "Correct Assignment to make corrections on
Reel 014411 /Frame 0765

Execution Date: August 12, 2003

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

Name: SAMSUNG ELECTRONICS CO., LTD.

Address: 416, MAETAN-DONG, YEONGTONG-GU

SUWON-SI, GYEONGGI-DO

REPUBLIC OF KOREA

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

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

10 / 642703

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)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Steve Cha

Address: CHA & REITER
210 Route 4 East, Suite #103
Paramus, New Jersey 07652

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, if necessary -
for overages or underpayments only

8. Deposit account number: 502-470

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Steve Cha, Reg No.44,069
Name of Person Signing

Signature

Date

3/22/04

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

Mail documents to be recorded with required cover sheet information to:

03/26/2004 LMUELLER 00000033 10642703

Assistant Commissioner for Patents
Box Assignments
Washington, D.C. 20231

01 FC:8021

40.00 OP

(BDSM 8)
(9/94)

PATENT
REEL: 015130 FRAME: 0480

Assignment of Invention and Patent Application

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of TEN (\$10.00) DOLLAR,

- 1) Tae-Sung PARK of
#554-104, Jinhung APT., Youngtong-dong, Paldal-gu, Suwon-shi, Kyonggi-do,
Republic of Korea
- 2) Chan-Youl KIM of
#102-506, Changbo APT., Ojong-dong, Ojong-gu, Puchon-shi, Kyonggi-do,
Republic of Korea
- 3) Jong-Hun LEE of
265-47, Yuljeon-dong, Changan-gu, Suwon-shi, Kyonggi-do, Republic of Korea
- 4) Sung-II SOHN of
298-10, Sangdo 3-dong, Tongjak-gu, Seoul, Republic of Korea

(hereinafter Assignor) hereby sells, assigns, transfers, and sets over unto:

SAMSUNG ELECTRONIC CO., LTD. of
416, MAETAN-DONG, PALDAL-GU, SUWON-CITY, KYUNGKI-DO, KOREA
REPUBLIC OF KOREA


(hereinafter Assignee) the entire right, title and interest for the United States Of America as defined in 35 U.S.C. § 1.00, in and to the invention entitled as:

**TEMPERATURE CONTROLLER IN OPTICAL COMMUNICATION DEVICE AND
METHOD FOR SAME**

invented by Assignor; the application for United States patent therefor, invented by Assignor; any patent or reissues of any patent that may be granted thereon; and any applications which are continuations, continuation-in-part, substitutes, or divisions of said application. Assignor authorizes Assignee to enter the date of signature and/or Serial Number and Filing Date in the above. Assignor also authorizes and requests the Commissioner of Patents and Trademarks to issue any resulting patent(s) to the said Assignee, for its interests as Assignee, its successors, assigns and legal representatives. The undersigned agrees that the attorney of record in said application shall hereafter act on behalf of said Assignee; and Assignor further conveys to Assignee all priority rights resulting from the above-identified application for United States Patent. Assignor agrees to execute all papers, give any required testimony and perform other lawful acts, as deemed essential by Assignee to perfect Assignee's interest in any resulting patent of the United States, and to acquire, hold, enforce, convey, and uphold the validity of said patent and reissues and extensions thereof, and Assignee's interest therein.

SIGNED ON THE DATES(S) INDICATED BESIDE MY/OUR SIGNATURE(S):

Name of First Inventor: Tae-Sung PARK




Signature of inventor

Dated: August 12, 2003


WITNESSED: _____

Name of Second Inventor: Chan-Youl KIM



Signature of inventor

Dated: August 12, 2003

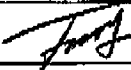
WITNESSED: _____

Name of Third Inventor: Jong-Hun LEE



Signature of inventor

Dated: August 12, 2003


WITNESSED: _____

Name of Fourth Inventor: Sung-Il SOHN



Signature of inventor

Dated: August 12, 2003

WITNESSED: _____

08-26-2003

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

RE



ET

102534151

Attorney Docket No. 5000-1-327

To the Assistant Commissioner for Patents

1. Name of conveying party(ies):

Tae-Sung Park; Chan-Youl Kim; Jong-Hyn Lee;
Sung-il Sohn

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

3. Nature of conveyance:

☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Other: _____

Execution Date: August 12, 2003

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

Name: SAMSUNG ELECTRONICS CO., LTD.

Address: 416, MAETAN-DONG, PALDAL-GU

SUWON-CITY, KYUNGKI-DO

KOREA, 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: August 12, 2003

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: Steve Cha

Address: CHA & REITER
411 Hackensack Avenue, 9th Floor
Hackensack, New Jersey 07601

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, if necessary
- for overages or underpayments only

8. Deposit account number: 502-470

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Steve Cha, Reg No.44,069
Name of Person Signing

[Signature]
Signature

8/18/03
Date

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

Mail documents to be recorded with required cover sheet information to:

8/20/2003 HLE333 00000021 10642703

FC:8021

40.00 DP

Assistant Commissioner for Patents
Box Assignments
Washington, D.C. 20231