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Attorney Docket No. 5000-1-493

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1. Name of conveying party(ies):

Jong-Kwon Kim; Ki-Cheol Lee; Seong-Taek Hwang;
Jun-Ho Koh

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

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Other: _____

Execution Date: January 5, 2004

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

Name: SAMSUNG ELECTRONICS CO., LTD.

Address: 416, MAETAN-DONG, YEONGTONG-GU

SUWON-SI, GYEONGGI-DO.

KOREA, REPUBLIC OF KOREA

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

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

10754030

If this document is being filed together with a new application, the execution date of the application is: January 5, 2004

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
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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.

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

Signature

Date

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

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) Jong-Kwon KIM of
#146-12, Kayang 2-dong, Tong-gu, Taejonkwangyok-shi, Republic of Korea
- 2) Ki-Cheol LEE of
#201-1701, Wonchon Jugong 2-danji APT., Wonchon-dong, Paldal-gu, Suwon-shi,
Kyonggi-do, Republic of Korea
- 3) Seong-Taek HWANG of
#102-303, Daerim APT., Dokgok-dong, Pyongtaek-shi, Kyonggi-do, Republic of Korea
- 4) Jun-Ho KOH of
#231-601, Hwanggolmaeul, Pungrim APT., Youngtong-dong, Paldal-gu, Suwon-shi,
Kyonggi-do, Republic of Korea

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

SAMSUNG ELECTRONIC CO., LTD. of
416, MAETAN-DONG, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO, 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:

BI-DIRECTIONAL OPTICAL ADD/DROP MULTIPLEXER FOR WDM OPTICAL NETWORKS

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:

Jong-Kwon KIM

Jong Kwon Kim
Signature of inventor

Dated: Jan. 5, 2004

WITNESSED: Jong-Hee KIM

Name of Second Inventor:

Ki-Cheol LEE

Ki Cheol Lee
Signature of inventor

Dated: Jan. 5, 2004

WITNESSED: Jong-Hee KIM

Name of Third Inventor:

Seong-Taek HWANG

SeongTaek Hwang
Signature of inventor

Dated: Jan. 5, 2004

WITNESSED: Jong-Hee KIM

Name of Fourth Inventor:

Jun-Ho KOH

Jun Ho Koh
Signature of inventor

Dated: Jan. 5, 2004

WITNESSED: Jong-Hee KIM