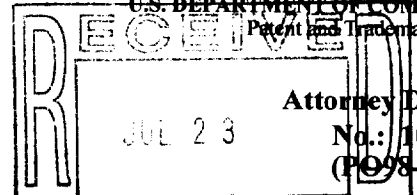


07-29-1999



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7.23.99

To the Assistant Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Chang Hee Lee  
Yun Chur Chung  
Sang Young Shin  
Jong Nam Lee

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

Korea Advanced Institute Science and Technology  
373-1 Koosung-dong,  
Yoosung-ku, Taejun 305-701  
REPUBLIC OF KOREA

3. Nature of conveyance:

Assignment                       Merger  
 Security Agreement             Change of Name  
 Other:

Execution Date: July 13, 1999

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): 09/309,253

B. Patent No.(s):

Additional numbers attached?     Yes     No

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

LESLIE L. KASTEN, JR.  
PANITCH SCHWARZE JACOBS & NADEL, P.C.  
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Philadelphia, PA 19103-7086  
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Facsimile: (215) 567-2991  
E-Mail: psjn@psjn.com

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) Cal. 1 x \$40.00 = \$40.00

Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number: 16-0235

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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.

07/28/1999 DNGUYEN 00000379 160235 09309253

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LESLIE L. KASTEN, JR.  
Name of Person Signing

Signature

7/21/99  
Date

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

Attorney Docket No. 10061-5

Ref. No. PO98-06US

**ASSIGNMENT**

**WHEREAS, we, Chang Hee LEE; Yun Chur CHUNG; Sang Young SHIN; and Jong Nam LEE respectively citizens of KR with respective post office addresses of 110-102 Hanul Apartment, Sinsung-dong, Yoongsung-ku, Taejun 305-345, Republic of Korea; 101-1303 Hanbit Apartment, Aeun-dong, Yoongsung-ku, Taejun 305-333, Republic of Korea; 9-711 Hanyang Apartment, Apgujung-dong, Kangnam-ku, Seoul 135-110, Republic of Korea; and 103-202 EunHaing Apartment, Changwoo-dong, Hanam-si, Kyonggi-do 465-120, Republic of Korea.** hereinafter generally referred to as "ASSIGNORS," have invented a certain new and useful **APPARATUS AND METHOD FOR MONITORING THE QUALITIES OF OPTICAL SIGNAL USING CLOCK AMPLITUDE** for which we have executed a United States patent application, Application No. 09/309,253, filed May 10, 19 99, and

**ASSIGNORS** authorize ASSIGNEE or ASSIGNEE's representative to insert the Application Number and Filing date of this application if they are unknown at the time of execution of this Assignment.

**WHEREAS, Korea Advanced Institute Science and Technology, a university having a place of business at 373-1 Koosung-dong, Yoosung-ku, Taejun 305-701, Republic of Korea hereinafter generally referred to as "ASSIGNEE", is desirous of acquiring said invention and said patent application.**

**NOW, THEREFORE,** in consideration of the sum of One Dollar and other good and valuable executed Consideration, the full receipt and sufficiency of all of which are hereby acknowledged and intending to be legally bound hereby, we, the undersigned ASSIGNORS, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application, and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-provisionals, divisions and continuations thereof, along with all rights of priority created by said patent application under any treaty relating thereto; and

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the MI end of the term or terms for which said patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNOR had this assignment and sale not been made; and for the aforesaid consideration ASSIGNOR hereby covenants agrees and undertakes to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNOR.

(Date) July 13, 1999

(Signature) Chang Hee Lee  
Chang Hee LEE

(Date) July 13, 1999

(Signature) Yun Chur Chung  
Yun Chur CHUNG

(Date) July 13, 1999

(Signature) Sang Young Shin  
Sang Young SHIN

(Date) July 13, 1999

(Signature) Jong Nam Lee  
Jong Nam LEE