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

1. Name of conveying party(ies)

Tuan-Yu Hung, Chang-You Li, Jung-Te Ting,
Ling-Ying Chiang, Wen-Chih Hsieh and Ing-Jer HoAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: October 24, 2003

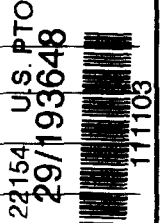
2. Name and address of receiving party(ies)

Name: APAC Opto Electronics Inc.

Internal Address: _____

Street Address: No. 7, Sanmin RoadHukou TownshipHsinchu County, Taiwan

City: _____ State: _____ ZIP: _____

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: October 24, 2003A. Patent Application No.(s) 29193648
for "1x9 Bi-Direction Optical Transceiver"

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: Jason Z. Lin

Internal Address: _____

Supreme Patent ServicesStreet Address: Post Office Box 2339City: Saratoga State: CA ZIP: 950706. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number: _____

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

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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.*Jason Z. Lin
Name of Person Signing
SignatureNov. 11, 2003
DateTotal number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
Director of the US Patent and Trademark Office, Mail Stop Assignment
P.O. Box 1450, Alexandria, VA 22313-1450

11/17/2003 MGBREM1 00000099 29193648

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PATENT
REEL: 014700 FRAME: 0642

ASSIGNMENT

WHEREAS, I/we, **Tuan-Yu Hung, Chang-You Li, Jung-Te Ting, Ling-Ying Chiang, Wen-Chih Hsieh and Ing-Jer Ho,**

whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful improvements in **1x9 Bi-Direction Optical Transceiver,**

(hereinafter referred to as the Invention) for which an application for United States Letters Patent was

- ☒ executed on even date herewith;
- ☐ executed on _____;
- ☐ filed on _____, Serial No. _____;
- ☐ filed as PCT International Application No. _____ on _____, designating
The United States of America;
- ☐ Patent number _____, issue on _____.

WHEREAS, **APAC Opto Electronics Inc.,**

whose post office address is **No.7, Sanmin Rd., Hukou Township, Hsinchu County 303, Taiwan (R.O.C.).**

Hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I/we, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said invention and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

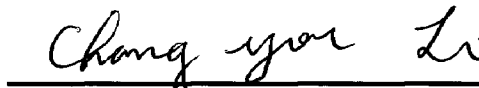
Assignor: **Tuan-Yu Hung**
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Dated this 24th day of October, 2003 at


Signature

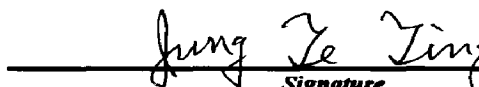
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Dated this 24th day of October, 2003 at


Signature

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Dated this 24th day of October, 2003 at


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☒ CONTINUED ON PAGE 2

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Dated this 24th day of October, 2003 at

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Signature

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Dated this 24th day of October, 2003 at

Wen-Chih Hsieh
Signature

Assignor: **Ing-Jer Ho**
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Hsinchu City 300, Taiwan (R.O.C.)

Dated this 24th day of October, 2003 at

Ing-Jer Ho
Signature

☐ CONTINUED ON PAGE 3