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B-4586NP 621546-719270 U.S. PTO
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Patent and Trademark Office

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

<p>1. Name of conveying party(ies):</p> <p>Daniel YAP 12.12.03 Peter PETRE Joseph S. COLBURN</p> <p>Additional name(s) of conveying parties attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>2. Name and address of receiving parties:</p> <p>Name: <u>HRL Laboratories, LLC</u></p> <p>Street Address: <u>3011 Malibu Canyon Road</u></p> <p>City: <u>Malibu</u> State: <u>California</u> Zip: <u>90265-4799</u> Country: <u>USA</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other</p> <p>Execution Date: <u>December 9, 2003 for Daniel YAP and Peter PETRE:</u> <u>December 10, 2003 for Joseph S. COLBURN</u></p>	

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

16735070

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

December 9, 2003 for Daniel YAP and Peter PETRE:
December 10, 2003 for Joseph S. COLBURN

A. Patent Application No(s):

B. Patent No(s):

Additional numbers attached? ☐ YES ☒ NO

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Richard P. Berg Name: <u>LADAS & PARRY</u> Internal Address: _____ Street Address: <u>5670 Wilshire Boulevard #2100</u> City: <u>Los Angeles</u> State: <u>CA</u> Zip: <u>90036</u></p>	<p>6. Total number of application and patents involved: <u>[1]</u></p> <p>7. Total fee 937 CFR 3.41).....\$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed</p> <p>Any additional fees which may be required are <input checked="" type="checkbox"/> Authorized to be charged to deposit account No. <u>12-0415</u></p> <p>8. Deposit account number: _____ (Attach duplicate copy of this page if paying by deposit account)</p>
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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.*Ross A. SchmittName of Person Signing
Reg. No. 42,529Ross A. Schmitt
SignatureDecember 12, 2003
DateTotal number of pages including cover sheet, attachments, and document: [4] plus \$40 check

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PATENT
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CONFIRMATORY ASSIGNMENT

WHEREAS: **Daniel Yap**
Residing at: 5155 Via Capote
Newbury Park, California 91320

and

Peter Petre
Residing at: 176 Valero Circle
Oak Park, California 91377

and

Joseph S. Colburn
Residing at: 10368 1/2 Ashton Ave.
Los Angeles, California 90024

(hereinafter referred to as ASSIGNORS), have invented a certain invention entitled:

"TUNABLE RF-LIGHTWAVE MODULATOR"

for which application for Letters Patent of the United States has been executed on even date herewith, and which application claims the benefit of U.S. Provisional Application(s) No(s). 60/461,894, filed on 10 April 2003, under 35 U.S.C. Section 119(e);

WHEREAS: HRL Laboratories, LLC

A Limited Liability Company formed under the laws of the State of Delaware, United States of America,

having its principal place of business at:

3011 Malibu Canyon Road
Malibu, California 90265-4799

(hereinafter referred to as ASSIGNEE), is desirous of confirming that it has acquired the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that ASSIGNORS, for good and valuable consideration, hereby confirm that, effective as of the date of filing said U.S. Provisional Application, that they did sell, assign and transfer to ASSIGNEE the full and

exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries, including the right to claim priority under any applicable provisions of the International Convention and the Patent Cooperation Treaty and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention, assignments related to said application or said invention, and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Subscribed and executed at X Malibu, CA, USA
on X Dec. 9, 2003.

Inventor: X Daniel Yap
Daniel Yap

Subscribed and executed at X Malibu, CA, USA
on X Dec. 9, 2003.

Inventor: X Peter Petre
Peter Petre

Subscribed and executed at X Malibu, CA, USA
on X Dec. 10, 2003.

Inventor:

X Joseph S. Colburn
Joseph S. Colburn