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<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>August 8, 2000</u></p>	<p>10/19/02 U.S. PTO 10/19/02</p>

4. Application number(s) or patent number(s): 10/196444

If this document is being filed together with a new application, the execution date of the application is: August 8, 2000

A. Patent Application No(s): _____ Additional numbers attached? YES NO

B. Patent No(s): _____

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Richard P. Berg</p> <p>Name: <u>LADAS & PARRY</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>5670 Wilshire Boulevard, #2100</u></p> <p>City: <u>Los Angeles</u> State: <u>CA</u> Zip: <u>90036-5679</u></p>	<p>6. Total number of application and patents involved: [1]</p> <p>7. Total fee 937 CFR 3.41).....\$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p>Any additional fees which may be required are</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>No. <u>12-0415</u></p>
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Richard P. Berg _____ July 15, 2002

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PATENT
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PL 69663648 UC
B-3757 DIV 1 610905-1

USSN 09/593,188

Assignment
Page 1

B-3757 617349-5

ASSIGNMENT

WHEREAS: **Ronald Regis Stephens**
Residing at: 3117 West Sierra Drive
Westlake Village, California 91362

(hereinafter referred to as ASSIGNOR), has invented and owns a certain invention entitled:

**"WAVELENGTH DIVISION MULTIPLEXING METHODS AND APPARATUS FOR
CONSTRUCTING PHOTONIC BEAMFORMING NETWORKS"**

for which application for Letters Patent of the United States was assigned U.S. Application No. 09/593,188, filed on June 14, 2000;

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 acquiring entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that ASSIGNOR, for good and valuable consideration, hereby sells, assigns and transfers 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.

ASSIGNOR hereby covenants that no assignment, sale, agreement or

encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants 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 ASSIGNOR 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 Westlake Village, CA

on AUGUST 8 2000.

Inventor: Ronald Regis Stephens
Ronald Regis Stephens

Please return to:
Ladas & Parry
5670 Wilshire Blvd.
Ste. 2100
Los Angeles, CA 90036