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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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Tab settings

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

1. Name of conveying party(ies):

Haig Charles Tapalian
Juha-Pekka Laine

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

Name: The Charles Stark Draper Laboratory, Inc.

Internal Address:

Street Address: 555 Technology Square

City: Cambridge

State: MA ZIP: 02139

Additional names(s) of conveying party(ies) Yes No

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: September 28 and October 9, 2001

4. Application number(s) or registration numbers(s):

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

A. Patent Application No.(s)

09/941,308

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Elizabeth E. Kim

Internal Address: McDermott, Will & Emery

Street Address: 28 State Street

City: Boston State: MA ZIP: 02109

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41): \$ 40.00

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

50-1133

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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.

Elizabeth E. Kim

Elizabeth E. Kim

November 2, 2001

Name of Person Signing

Signature

Date

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

ASSIGNMENT OF PATENT RIGHTS

We, **Haig Charles Tapalian of 359-1F Bolivar Street, Canton, MA 02021 and Juha-Pekka Laine of 534 Beacon Street, Apt. 801, Boston, MA 02215**, having invented improvements in a **MICROCAVITY-BASED OPTICAL CHANNEL ROUTER** described in United States Patent Application having Serial No. **09/941,308**, filed **August 29, 2001** by our agent(s) and attorney(s), who are authorized to prosecute said application, for good and valuable consideration, receipt of which is hereby acknowledged from **The Charles Stark Draper Laboratory, Inc., a Massachusetts Corporation** having a principal place of business at **555 Technology Square, Cambridge, MA 02139 USA**, and hereinafter referred to as the Assignee (which term shall include the successors and assigns), do hereby sell, assign and transfer to the Assignee our entire right, title, and interest, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and all inventions (which term shall include each and every such invention, or any part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application.

And for the same consideration we do also hereby sell, assign and transfer unto the Assignee all our rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty and all other treaties of like purpose in respect of said inventions and said application, and we do hereby authorize the Assignee to apply in our names or in their own name (in a manner to be agreed upon by the Assignee) or their designee, for patents and like rights of exclusion on or for said inventions in all countries, claiming (if the Assignee so desires) the priority of the filing date of said application under the provisions of said Convention, Treaty or any such other Convention or Treaty;

And for the same consideration we do hereby jointly and severally agree for ourselves and for our respective heirs, executors and administrators, promptly upon request of the Assignee, to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by the Assignee fully to secure to it said right, title, and interest as aforesaid in and to said inventions, application, and said several patents and like rights of exclusion, or any of them, all, however, at the expense of the Assignee;

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding Official of each country foreign thereto to issue to the Assignee any and all patents and like rights of exclusion which may be granted in any country upon said application or on or for said inventions;

And we do hereby jointly and severally covenant for ourselves and for our respective legal representatives and agree with the Assignee that we have granted no right or license to make, use or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title and interest in and to said inventions has not been otherwise encumbered by us, and that we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, we hereunto set our hands and seals on the day and year hereinafter noted.

Haig Charles Tapalian
Haig Charles Tapalian

State of Massachusetts
County of Middlesex ss.

Before me this 28th day of September, 2001, personally appeared **Haig Charles Tapalian**, and acknowledged the foregoing instrument to be his or her free act and deed.

Margaret Ann Hood
Notary Public
My Commisison Expires Sept. 9. 2005

SEAL

Juha-Pekka Laine
Juha-Pekka Laine

State of Massachusetts
County of Middlesex ss.

Before me this 9th day of October, 2001, personally appeared **Juha-Pekka Laine**, and acknowledged the foregoing instrument to be his or her free act and deed.

Margaret Ann Hood
Notary Public
My Commisison Expires Sept. 9. 2005

SEAL

CSLL-643 (56247-167)

McDermott, Will & Emery
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Boston, MA 02109
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