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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):
Takuya Ohara
Hidehiko Takara
Ipei Shake
Satoki Kawanishi

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

5-14-03

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

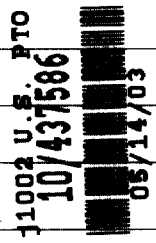
Name: **Nippon Telegraph and Telephone Corporation**

Address: **3-1, Otemachi 2-chome, Chiyoda-ku**

City: **Toyko** State/Prov.: _____

Country: **Japan** ZIP: **100-8116**

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



3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: **May 7, 2003**

4. Application number(s) or patent numbers(s):
If this document is being filed together with a new application, the execution date of the application is: **May 7, 2003**

Patent Application No. Filing date B. Patent No.(s)


05/16/2003 SSITHIB1 00000002 10437586
03 FC:8021 40.00 DP

Additional numbers Yes No

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

Name: **Dana L. Tangren**

Registration No. **37,246**

Address: _____

022913

City: **PATENT TRADEMARK OFFICE** State/Prov.: _____

Country: _____ ZIP: _____

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
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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.

Dana L. Tangren _____
Name of Person Signing Signature **5/14/03** Date

4

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Workman, Nydegger & Seeley
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111

Form P4

ASSIGNMENT

I/We the under signed, hereinafter collectively referred to as "Assignor", are the inventors of an invention entitled OPTICAL MODULATION/MULTIPLEXING CIRCUIT

Preferred embodiments of said invention are disclosed in a United States patent application which:

is executed concurrently herewith for filing in the United States Patent and Trademark Office.

was previously filed in the United States Patent and Trademark Office on _____, Application Serial No. _____.

is a United States National Application of PCT International Application No. _____, filed _____.

The Assignee, NIPPON TELEGRAPH AND TELEPHONE CORPORATION, having a principal place of business at 3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116, Japan, desires to secure the entire right, title and interest in said application.

In consideration of One Dollar (\$1.00) and other good and valuable consideration paid to Assignor by the Assignee, the receipt and sufficiency of which is hereby acknowledge, ASSIGNOR HEREBY ASSIGNS TO THE ASSIGNEE:

The entire right, title, and interest in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said

application, or reissues or extensions of letters patent or patents granted thereon, and in all patents issuing thereon in the United States and foreign countries.

The right to claim the benefits of any prior related United States or foreign patent applications.

Assignor hereby authorizes and requests the United States Commissioner of Patents and Trademarks, to issue any and all patents on said application to the Assignee as the owner of the entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives.

Assignor hereby agrees, without further consideration, to sign all lawful papers and to perform all other lawful acts which the Assignee may request Assignor to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States applications and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

Cooperation to the best of Assignor's ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said application.

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Full name of sole or first inventor

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Inventor's signature Takuya Ohara

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