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Docket No.: 500.36073PX2

FORM PTO-1595
1-31-92

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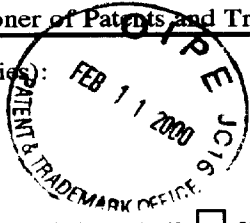
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No. 112007

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

1. Name of conveying party(ies):
 Shigeki KITAJIMA
 Shoichi HANATANI
 Hirohisa SANO
 Tatsuo KANETAKE

Additional name(s) of conveying party(ies) attached? Yes No



2. Name and address of receiving party(ies):
 Name: Hitachi, Ltd.
 Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku
 City: Tokyo:
 Country: Japan

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

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

Execution Date: September 8, 1998 & September 22, 1998

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:

A. Patent Application No.(s)
 09/114,855
 July 14, 1998

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP

Internal Address:

Street Address: 1300 North Seventeenth Street
 Suite 1800

City: Arlington State: VA Zip: 22209

6. Total number of applications and patents involved: 1

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

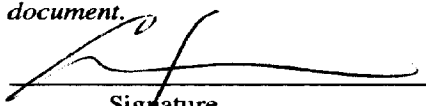
Enclosed
 Any deficiencies may be charged to deposit account
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8. Deposit account number: 01-2135

(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.

Carl I. Brundidge  February 11, 2000
 Name of Person Signing Signature Date

Attorney Registration No. 29,621

Total number of pages including cover sheet, attachments, and document: 2

OMB No. 0651-0011 (exp. 4/94)

ASSIGNMENT (讓渡証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to "OPTICAL CROSS-CONNECT SYSTEM AND OPTICAL TRANSMISSION SYSTEM"

* U.S. Serial No. 09/114,855 filed on July 14, 1998
invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

Signed on the date(s) indicated aside signatures :

INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)	Witnesses (立会人サイン)
1) <u>Shigeki Kitajima</u> (Shigeki KITAJIMA)	September 8, 1998	<u>Juichi Kishida</u>
2) <u>Shoichi Hanatani</u> (Shoichi HANATANI)	September 22, 1998	<u>Juichi Kishida</u>
3) <u>Hirohisa Sano</u> (Hirohisa SANO)	September 22, 1998	<u>Juichi Kishida</u>
4) <u>Tatsuo Kanetake</u> (Tatsuo KANETAKE)	September 8, 1998	<u>Juichi Kishida</u>
5) _____	_____	_____
6) _____	_____	_____
7) _____	_____	_____
8) _____	_____	_____
9) _____	_____	_____
10) _____	_____	_____