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Attorney Docket No. 520.46328X00

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

10-4-06

1. Name of conveying party(ies):  
Tooru HIRAI  
Yasuyuki FUKASHIRO  
  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: **HITACHI COMMUNICATION TECHNOLOGIES, LTD.**  
  
Street Address: **26-3, Minami Ohi 6-chome Shinagawa-ku, Tokyo**  
  
City: State: Zip:  
  
Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance/ Execution Date: **July 5, 2006; July 5, 2006.**  
  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other .

4. Application number(s) or patent number(s):  
A. Patent Application No.(s)  
**11/482,753**  
  
Additional number(s) attached  Yes  No

This document is being filed together with a new application.  
B. Patent Registration No.(s)  
**11482753**  
**48.08**

5. Name and address of party to whom correspondence concerning document should be mailed:  
  
Name: **ANTONELLI, TERRY, STOUT & KRAUS, LLP**  
  
Internal Address:  
**1300 NORTH 17<sup>TH</sup> STREET - SUITE 1800**  
  
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Phone Number: **(703) 312-6600**  
Facsimile Number: **(703) 312-6666**  
Email Address: **email@antonelli.com**

6. Total number of applications and patents involved  
  
7. Total fee (37 CFR 3.41)..... **\$40.00**  
 Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)  
  
8. Payment Information:  
a. Credit Card Last 4 numbers: 1107  
Expiration date: 6/10  
b. Deposit account number: 01-2135  
  
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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.*  
  
**Melvin Kraus, Reg#22,466**  
Name of Person Signing  
  
  
Signature  
  
**10/4/06**  
Date  
  
Total number of pages including cover sheet, attachments, and document: **2**

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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

# ASSIGNMENT ( 譲渡証 )

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 communication Technologies, Ltd. a corporation organized under the laws of Japan, located at 26-3, Minamiooi 6-chome Shinagawa-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi communication Technologies, Ltd , its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

## Optical Crossconnect Apparatus

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 communication Technologies, 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 communication Technologies, 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)
1) <u>Tooru Hirai</u>	<u>Jul., 5, 2006</u>
2) <u>Yasuyuki Fukashiro</u>	<u>Jul., 5, 2006</u>
3) _____	_____
4) _____	_____
5) _____	_____
6) _____	_____
7) _____	_____
8) _____	_____
9) _____	_____
10) _____	_____