

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Taiki Nema</td> <td>12/14/2009</td> </tr> <tr> <td>Tohru Kazawa</td> <td>12/16/2009</td> </tr> <tr> <td>Ryosuke Kurata</td> <td>12/14/2009</td> </tr> </tbody> </table>		Name	Execution Date	Taiki Nema	12/14/2009	Tohru Kazawa	12/16/2009	Ryosuke Kurata	12/14/2009		
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Hitachi, Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>6-6, Marunouchi 1-chome</td> </tr> <tr> <td>Internal Address:</td> <td>Chiyoda-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table>		Name:	Hitachi, Ltd.	Street Address:	6-6, Marunouchi 1-chome	Internal Address:	Chiyoda-ku	City:	Tokyo	State/Country:	JAPAN
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CORRESPONDENCE DATA											
Fax Number: (703)312-6666 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 703-312-6600 Email: rperez@antonelli.com Correspondent Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP Address Line 1: 1300 NORTH SEVENTEENTH STREET Address Line 2: SUITE 1800 Address Line 4: ARLINGTON, VIRGINIA 22209-3873											
ATTORNEY DOCKET NUMBER:	520.50405X00										
NAME OF SUBMITTER:	Paul J. Skwierawski										
Total Attachments: 1 source=Assignment#page 1.tif											

OP \$40.00 12634905

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PATENT
REEL: 023990 FRAME: 0614

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, Ltd., a corporation organized under the laws of Japan, located at 6-6, Marunouchi 1-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 NETWORK SYSTEM AND METHOD OF CHANGING ENCRYPTION KEYS

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 our signatures:

	INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
1)	Taiki NEMA Taiki NEMA	12/14/09
2)	Tohru KAWAZAWA Tohru KAWAZAWA	12/16/09
3)	Ryosuke KURATA Ryosuke KURATA	12/14/09
4)		
5)		
6)		
7)		
8)		
9)		
10)		

PATENT

RECORDED: 02/25/2010

REEL: 023990 FRAME: 0615