

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kentaro WATANABE</td> <td>05/14/2012</td> </tr> <tr> <td>Takashi TAMESHIGE</td> <td>05/14/2012</td> </tr> <tr> <td>Masayasu ASANO</td> <td>05/15/2012</td> </tr> <tr> <td>Mutsumi HOSOYA</td> <td>05/15/2012</td> </tr> <tr> <td>Hideo SAITO</td> <td>05/15/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kentaro WATANABE	05/14/2012	Takashi TAMESHIGE	05/14/2012	Masayasu ASANO	05/15/2012	Mutsumi HOSOYA	05/15/2012	Hideo SAITO	05/15/2012
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Hideo SAITO	05/15/2012												
RECEIVING PARTY DATA													
Name:	HITACHI, LTD.												
Street Address:	6-6, Marunouchi 1-chome												
Internal Address:	Chiyoda-ku												
City:	Toyko												
State/Country:	JAPAN												
Postal Code:	100-8280												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13512616</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13512616								
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CORRESPONDENCE DATA													
Fax Number:	(215)568-6499												
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NAME OF SUBMITTER:	Daniel N. Calder												
Total Attachments: 1 source=341250191US01_Assignment#page1.tif													

CH \$40.00 13512616

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 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

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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) <u>Kentaro Watanabe</u> Kentaro WATANABE	<u>May 14 2012</u>
2) <u>Takashi Tameshige</u> Takashi TAMESHIGE	<u>May 14 2012</u>
3) <u>Masayasu Asano</u> Masayasu ASANO	<u>May 15 2012</u>
4) <u>Mutsumi Hosoya</u> Mutsumi HOSOYA	<u>May 15 2012</u>
5) <u>Hideo Saito</u> Hideo SAITO	<u>May 15 2012</u>
6) _____	_____
7) _____	_____
8) _____	_____
9) _____	_____
10) _____	_____