

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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YOSHIHIRO OIKAWA	07/28/2016
HIROSHI HIRAYAMA	07/19/2016
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15122669
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ATTORNEY DOCKET NUMBER:	HITACHI2-341300647US01
NAME OF SUBMITTER:	DANIEL N. CALDER
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DATE SIGNED:	08/31/2016
Total Attachments: 1	
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ASSIGNMENT

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, a citizen of Japan, by **Hitachi, Ltd.** (hereinafter referred to as ASSIGNEE), a corporation organized under the laws of Japan, located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8280 Japan, receipt of which is hereby acknowledged, I do hereby sell and assign to said ASSIGNEE, its successors and assigns, all my right, title and interest, in and for the United States of America, in and to application serial no. _____, filed _____, and entitled:

NON-VOLATILE MEMORY DEVICE, AND STORAGE APPARATUS HAVING NON-VOLATILE MEMORY DEVICE

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, said interest being the entire ownership of said Letters Patent when granted, to be held and enjoyed by said ASSIGNEE, 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;

Whereby, I hereby grant the law firm of Volpe and Koenig, P.C., the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document, including inserting the application serial number and filing date when known.

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

Signed on the date(s) indicated aside signatures:

	INVENTOR	Date Signed
1)	<u>Yoshihiro Oikawa</u> Yoshihiro OIKAWA	<u>July 28, 2016</u>
2)	<u>Hiroshi Hirayama</u> Hiroshi HIRAYAMA	<u>July 19, 2016</u>
3)	_____	_____
4)	_____	_____
5)	_____	_____

PATENT