

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Hiroshi Iwasawa</td> <td>11/26/2012</td> </tr> <tr> <td>Akihiko Emori</td> <td>11/26/2012</td> </tr> <tr> <td>Yutaka Kobayashi</td> <td>12/03/2012</td> </tr> <tr> <td>Ko Takahashi</td> <td>11/29/2012</td> </tr> <tr> <td>Akihiko Kanouda</td> <td>12/07/2012</td> </tr> </tbody> </table>	Name	Execution Date	Hiroshi Iwasawa	11/26/2012	Akihiko Emori	11/26/2012	Yutaka Kobayashi	12/03/2012	Ko Takahashi	11/29/2012	Akihiko Kanouda	12/07/2012	
Name	Execution Date												
Hiroshi Iwasawa	11/26/2012												
Akihiko Emori	11/26/2012												
Yutaka Kobayashi	12/03/2012												
Ko Takahashi	11/29/2012												
Akihiko Kanouda	12/07/2012												
RECEIVING PARTY DATA													
Name:	Hitachi, Ltd.												
Street Address:	6-6, Marunouchi 1-chome												
Internal Address:	Chiyoda-ku												
City:	Tokyo												
State/Country:	JAPAN												
Postal Code:	100-8280												
PROPERTY NUMBERS Total: 1													
Property Type	Number												
Application Number:	13642741												
CORRESPONDENCE DATA													
Fax Number:	2155686499												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	215-568-6400												
Email:	jheuer@vklaw.com												
Correspondent Name:	Volpe and Koenig, P.C.												
Address Line 1:	30 South 17th Street												
Address Line 2:	United Plaza												
Address Line 4:	Philadelphia, PENNSYLVANIA 19103												
ATTORNEY DOCKET NUMBER:	HITACHI7-110952221US01												
NAME OF SUBMITTER:	Daniel N. Calder												
Total Attachments: 1 source=110952221US01_Assignment_EFS#page1.tif													

CH \$40.00 13642741

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 6-8, 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

BATTERY PACK AND BATTERY PACK CONTROLLER

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, No. PCT/JP2010/057251 filed April 23, 2010, 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)	Hiroshi IWASAWA <u>Hiroshi Iwasawa</u>	<u>11/26/2012</u>
2)	Akihiko EMORI <u>Akihiko Emori</u>	<u>11/26/2012</u>
3)	Yutaka KOBAYASHI <u>Yutaka Kobayashi</u>	<u>12/03/2012</u>
4)	Ko TAKAHASHI <u>Ko Takahashi</u>	<u>11/29/2012</u>
5)	Akihiko KANOUDA <u>Akihiko Kanouda</u>	<u>12/7/2012</u>
6)	_____	_____
7)	_____	_____
8)	_____	_____
9)	_____	_____
10)	_____	_____