

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Takae Shimada	07/25/2008
Yoshihide Takahashi	07/29/2008
Kimiaki Taniguchi	07/29/2008
Hiroyuki Shoji	07/25/2008
RECEIVING PARTY DATA	
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City:	Kanagawa-ken
State/Country:	JAPAN
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12193244
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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 citizen of Japan by Hitachi Computer Peripherals Co., Ltd., a corporation organized under the laws of Japan, located at 781, Sakai, Nakaimachi, Ashigarakami-gun, Kanagawa-ken, Japan., receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi Computer Peripherals Co., Ltd., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

BI-DIRECTIONAL DC-DC CONVERTER AND METHOD FOR CONTROLLING THE SAME

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 Computer Peripherals Co., 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 Computer Peripherals Co., 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>Takae Shimada</u> Takae SHIMADA	<u>7/25/2008</u>
2)	<u>Yoshihide Takahashi</u> Yoshihide TAKAHASHI	<u>7/29/2008</u>
3)	<u>Kimiaki Taniguchi</u> Kimiaki TANIGUCHI	<u>7/29/2008</u>
4)	<u>Hiroyuki Shoji</u> Hiroyuki SHOJI	<u>7/25/2008</u>
5)	_____	_____
6)	_____	_____
7)	_____	_____
8)	_____	_____
9)	_____	_____
10)	_____	_____