

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>Kazunori HATAKEYAMA</td> <td>02/27/2013</td> </tr> <tr> <td>Shinya MATSUSHITA</td> <td>03/06/2013</td> </tr> <tr> <td>Takuya SHIMOMUGI</td> <td>02/27/2013</td> </tr> <tr> <td>Naoki WAKUTA</td> <td>03/04/2013</td> </tr> <tr> <td>Shinsaku KUSUBE</td> <td>03/01/2013</td> </tr> <tr> <td>Tsutomu MAKINO</td> <td>03/06/2013</td> </tr> </tbody> </table>		Name	Execution Date	Kazunori HATAKEYAMA	02/27/2013	Shinya MATSUSHITA	03/06/2013	Takuya SHIMOMUGI	02/27/2013	Naoki WAKUTA	03/04/2013	Shinsaku KUSUBE	03/01/2013	Tsutomu MAKINO	03/06/2013
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<table border="1"> <tr> <td>Name:</td> <td>Mitsubishi Electric Corporation</td> </tr> <tr> <td>Street Address:</td> <td>7-3, Marunouchi 2-chome, Chiyoda-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>100-8310</td> </tr> </table>		Name:	Mitsubishi Electric Corporation	Street Address:	7-3, Marunouchi 2-chome, Chiyoda-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	100-8310				
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CORRESPONDENCE DATA															
<p>Fax Number: 7037079112 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703 707 9110 Email: mailbox@poszlaw.com Correspondent Name: POSZ LAW GROUP, PLC Address Line 1: 12040 SOUTH LAKES DRIVE Address Line 2: SUITE 101 Address Line 4: RESTON, VIRGINIA 20191</p>															
ATTORNEY DOCKET NUMBER:	129D_013_TN														

NAME OF SUBMITTER:

Therese Varndell

Total Attachments: 2

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U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by
(Insert Name(s) & Address(es) of ASSIGNEE(S))

Mitsubishi Electric Corporation

7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

HEAT PUMP DEVICE, HEAT PUMP SYSTEM, AND METHOD FOR CONTROLLING THREE-PHASE
INVERTER

relating to International Patent Application PCT/JP2010/068112 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____; (Insert date of execution of application, if not concurrent)

(b) filed on _____

Serial No. _____

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1) <u>Kazunori HATAKEYAMA</u> (Signature)	Kazunori HATAKEYAMA (Type Name)	<u>February 27, 2013</u> (Date)
2) <u>Takuya SHIMOMUGI</u> (Signature)	Takuya SHIMOMUGI (Type Name)	<u>February 27, 2013</u> (Date)
3) <u>Shinya MATSUSHITA</u> (Signature)	Shinya MATSUSHITA (Type Name)	<u>March 6, 2013</u> (Date)
4) _____ (Signature)	Nacki WAKUTA (Type Name)	_____ (Date)
5) <u>Shinsaku KUSUBE</u> (Signature)	Shinsaku KUSUBE (Type Name)	<u>March 1, 2013</u> (Date)
6) <u>Tsutomu MAKINO</u> (Signature)	Tsutomu MAKINO (Type Name)	<u>March 6, 2013</u> (Date)

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4) Naoki WAKUTA (Signature)	Naoki WAKUTA (Type Name)	March 4, 2013 (Date)
5) _____ (Signature)	Shinsaku KUSUBE (Type Name)	_____ (Date)
6) _____ (Signature)	Tsutomu MAKINO (Type Name)	_____ (Date)