

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MASARU TAKADA	12/02/2013
SHINYA TOKIZAKI	12/03/2013
HAJIME SOTOKAWA	12/04/2013
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TAKANORI IMAI	12/04/2013
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14347469
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SIGNATURE:	/James A. LaBarre/
DATE SIGNED:	03/26/2014
Total Attachments: 2	
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PATENT

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)

TOTAL HEAT EXCHANGE ELEMENT AND MANUFACTURING METHOD THEREOF

relating to International Patent Application PCT/JP2011/074666 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>Masaru Takada</u> (Signature)	<u>Masaru TAKADA</u> (Type Name)	<u>Dec 2, 2013</u> (Date)
2) <u>Shinya Tokizaki</u> (Signature)	<u>Shinya TOKIZAKI</u> (Type Name)	<u>Dec 3, 2013</u> (Date)
3) <u>Hajime Sotokawa</u> (Signature)	<u>Hajime SOTOKAWA</u> (Type Name)	<u>Dec 4, 2013</u> (Date)
4) <u>Yuichi Ishimaru</u> (Signature)	<u>Yuichi ISHIMARU</u> (Type Name)	<u>Dec 4, 2013</u> (Date)
5) <u>Takanori Imai</u> (Signature)	<u>Takanori IMAI</u> (Type Name)	<u>Dec 4, 2013</u> (Date)

6) Hidemoto Arai
(Signature)

Hidemoto ARAI
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Dec, 4, 2013
(Date)