

## 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>Takamitsu HIMENO</td> <td>02/26/2013</td> </tr> <tr> <td>Satoshi KOMINAMI</td> <td>02/26/2013</td> </tr> <tr> <td>Yasunobu ZYOUBOUJI</td> <td>02/26/2013</td> </tr> <tr> <td>Isao HASHIMOTO</td> <td>02/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	Takamitsu HIMENO	02/26/2013	Satoshi KOMINAMI	02/26/2013	Yasunobu ZYOUBOUJI	02/26/2013	Isao HASHIMOTO	02/26/2013
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RECEIVING PARTY DATA											
Name:	Mitsubishi Heavy Industries Automotive Thermal Systems Co., Ltd.										
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City:	Kiyosu-shi, Aichi										
State/Country:	JAPAN										
Postal Code:	452-8561										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13818886</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13818886						
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Application Number:	13818886										
CORRESPONDENCE DATA											
Fax Number:	2028221111										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Date:	04/12/2013										
Total Attachments: 1 source=130207_Assignment_04-12-2013#page1.tif											

OP \$40.00 13818886

# 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 **Mitsubishi Heavy Industries Automotive Thermal Systems Co., Ltd.** of **1, Asahi 3-chome, Nishi-biwajima-cho, Kiyosu-shi, Aichi 452-8561 Japan**

(Insert ASSIGNEE's Name(s) Address(es))

(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)

**LAYERED HEAT EXCHANGER, HEAT MEDIUM HEATING APPARATUS AND VEHICLE AIR-CONDITIONING APPARATUS USING THE SAME**

(\*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

\* filed on \_\_\_\_\_ Serial No. \_\_\_\_\_

(Westerman, Hattori, Daniels & Adrian, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

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

(Signatures)

<u><i>Takamitsu Himeno</i></u> (Signature)	<u><b>Takamitsu HIMENO</b></u> (Type Name)	<u>FEB. 26. 2013</u> (Date)
<u><i>Satoshi Kominami</i></u> (Signature)	<u><b>Satoshi KOMINAMI</b></u> (Type Name)	<u>FEB. 26. 2013</u> (Date)
<u><i>Yasunobu Joboji</i></u> (Signature)	<u><b>Yasunobu ZYOUBOUJI</b></u> (Type Name)	<u>FEB. 26. 2013</u> (Date)
<u><i>Isao Hashimoto</i></u> (Signature)	<u><b>Isao HASHIMOTO</b></u> (Type Name)	<u>FEB. 26. 2013</u> (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)

NO LEGALIZATION REQUIRED

PATENT