

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3099679

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GAKU KAMITANI	11/05/2014
ATSUHIKO HIRATA	11/05/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MURATA MANUFACTURING CO., LTD.
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<b>City:</b>	NAGAOKAKYO-SHI, KYOTO-FU
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	617-8555
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14536126
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<b>ATTORNEY DOCKET NUMBER:</b>	M1071.3412
<b>NAME OF SUBMITTER:</b>	PAUL C. MAIER
<b>SIGNATURE:</b>	/Paul C. Maier/
<b>DATE SIGNED:</b>	11/07/2014
<b>Total Attachments: 1</b>	
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PATENT APPLICATION ASSIGNMENT  
SOLE OR JOINT INVENTORS  
EXECUTED OUTSIDE U.S.A.

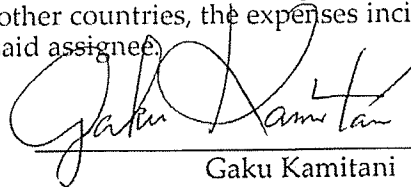
FILE NO. M1071.3412

WHEREAS, we Gaku Kamitani and Atsuhiko Hirata as assignors, have invented certain improvements in COOLING DEVICE AND HEATING AND COOLING APPARATUS for which an application for United States Letters Patent has been executed by us of even date herewith; and

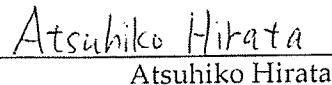
WHEREAS, Murata Manufacturing Co., Ltd. (Corporation of Japan) address: 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan, as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I (We), as assignor(s), hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for myself (ourselves) and my (our) legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.

Date: 5 Nov. 2014

  
Gaku Kamitani

Date: 5 November 2014

  
Atsuhiko Hirata

LEGALIZATION RECOMMENDED

DOCSNY-563900 v1