503498774 09/28/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3545399

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SOTARO OI	08/21/2015
TAKAYUKI KAWASAKI	08/27/2015

RECEIVING PARTY DATA

Name:	MITSUBISHI MATERIALS CORPORATION	
Street Address:	3-2, OTEMACHI 1-CHOME, CHIYODA-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	1008117	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14780779

CORRESPONDENCE DATA

Fax Number: (617)227-4420

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2024787375

Email: akiko.angelov@lockelord.com

Correspondent Name: LOCKE LORD LLP Address Line 1: P.O. BOX 55874

Address Line 4: BOSTON, MASSACHUSETTS 02205

ATTORNEY DOCKET NUMBER:	1477000.012US9	
NAME OF SUBMITTER:	JAMES E. ARMSTRONG, IV	
SIGNATURE:	/James E. Armstrong, IV/	
DATE SIGNED:	09/28/2015	

Total Attachments: 6

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PATENT 503498774 REEL: 036670 FRAME: 0824

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PATENT REEL: 036670 FRAME: 0825

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Sotaro Oi and Takayuki Kawasaki (hereinafter referred to as Assignors), residing at c/o MITSUBISHI MATERIALS CORPORATION, Central Research Institute, 1975-2, Shimoishitokami, Kitamoto-shi, Saitama 3640022 Japan and c/o MITSUBISHI MATERIALS CORPORATION, Central Research Institute, 1975-2, Shimoishitokami, Kitamoto-shi, Saitama 3640022 Japan, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in APPARATUS AND METHOD FOR PRODUCING (METAL PLATE)-(CERAMIC BOARD) LAMINATED ASSEMBLY, AND APPARATUS AND METHOD FOR PRODUCING POWER-MODULE SUBSTRATE, set forth in a Patent application for which an International Application was filed on March 18, 2014, PCT/JP2014/57336, designating the United States; and

WHEREAS, MITSUBISHI MATERIALS CORPORATION, a Corporation organized under and pursuant to the laws of Japan having its principal place of business at 3-2, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008117 Japan (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be

granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns that: Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise; that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; and, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply

with the rules of the United States Patent and Trademark Office for recordation of this document:

LOCKE LORD LLP

All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: 21.07, 20 /5	Signature:	Sotaro Oi
		Solute of
Date:	Signature:	Takayuki Kawasaki

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Sotaro Oi and Takayuki Kawasaki (hereinafter referred to as Assignors), residing at c/o MITSUBISHI MATERIALS CORPORATION, Central Research Institute, 1975-2, Shimoishitokami, Kitamoto-shi, Saitama 3640022 Japan and c/o MITSUBISHI MATERIALS CORPORATION, Central Research Institute, 1975-2, Shimoishitokami, Kitamoto-shi, Saitama 3640022 Japan, respectively;

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granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns that: Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise; that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; and, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

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LOCKE LORD LLP

All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date:	Signature:	Sotaro Oi
Date: 27.08.201	Signature:	Ja kayuki Kavneseki Takayuki Kawasaki

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RECORDED: 09/28/2015