

## 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>Kazuki MURAHASHI</td> <td>08/22/2013</td> </tr> <tr> <td>Kentarou MORITA</td> <td>08/22/2013</td> </tr> <tr> <td>Yuzuru KATO</td> <td>08/22/2013</td> </tr> <tr> <td>Atsushi MURATA</td> <td>08/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	Kazuki MURAHASHI	08/22/2013	Kentarou MORITA	08/22/2013	Yuzuru KATO	08/22/2013	Atsushi MURATA	08/22/2013
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Atsushi MURATA	08/22/2013										
RECEIVING PARTY DATA											
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City:	Tokyo										
State/Country:	JAPAN										
Postal Code:	141-8604										
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>14001590</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14001590						
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CORRESPONDENCE DATA											
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Date:

08/26/2013

Total Attachments: 2

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## ASSIGNMENT

IN CONSIDERATION of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned hereby sell, assign, and transfer to **NIPPON STEEL & SUMIKIN ENGINEERING CO., LTD.**, a corporation of Japan, having a principal place of business at 5-1, Osaki 1-chome, Shinagawa-ku, Tokyo 141-8604 Japan ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and discoveries that are disclosed in the United States Patent Application entitled:

the specification of which is attached hereto unless the following is entered:

Filed on	as United States Application Number or PCT International Application Number	and was amended on (if applicable)
28/February/2012	PCT/JP2012/054896	

NOW, THEREFORE, we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to said invention, said patent application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said invention in any and all countries, including all divisional, renewal, substitute, continuation, and Convention applications based in whole or in part upon said invention, or upon said patent application, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said invention or upon said patent application, and every priority right that is or may be predicated upon or arise from said invention, said patent application, and said Letters Patent(s).
2. Authorize Assignee to file patent applications in any or all countries for said invention in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under an International Convention or otherwise.
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as Assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.
4. Warrant that we have not conveyed to others any right, title, or interest in said invention, patent application, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said invention; that we have good right to assign the same to Assignee without encumbrance; and that we are aware of no claim to the contrary.
5. Bind our heirs, legal representatives, and assigns, as well as ourselves to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

EP1200210501  
07P-48748  
US 1/2

Inventor: Kazuki MURAHASHI

Inventor Signature <i>Kazuki Murahashi</i>	Date August 22, 2013
Witness Signature	Date
Print Witness Name	

Inventor: Kentarou MORITA

Inventor Signature <i>Kentarou Morita</i>	Date August 22, 2013
Witness Signature	Date
Print Witness Name	

Inventor: Yuzuru KATO

Inventor Signature <i>Yuzuru Kato</i>	Date August 22, 2013
Witness Signature	Date
Print Witness Name	

Inventor: Atsushi MURATA

Inventor Signature <i>Atsushi Murata</i>	Date August 22, 2013
Witness Signature	Date
Print Witness Name	