

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>Makoto OKONOGI</td> <td>01/25/2013</td> </tr> <tr> <td>Shingo YAMASAKI</td> <td>01/25/2013</td> </tr> <tr> <td>Akifumi KAWANA</td> <td>01/25/2013</td> </tr> <tr> <td>Hideaki GOTOHDA</td> <td>01/25/2013</td> </tr> </tbody> </table> | Name | Execution Date | Makoto OKONOGI | 01/25/2013 | Shingo YAMASAKI | 01/25/2013 | Akifumi KAWANA | 01/25/2013 | Hideaki GOTOHDA | 01/25/2013 | |
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| Makoto OKONOGI | 01/25/2013 | | | | | | | | | | |
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| Akifumi KAWANA | 01/25/2013 | | | | | | | | | | |
| Hideaki GOTOHDA | 01/25/2013 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| Name: | NIPPON STEEL & SUMITOMO METAL CORPORATION | | | | | | | | | | |
| Street Address: | 6-1, MARUNOUCHI 2-CHOME, CHIYODA-KU | | | | | | | | | | |
| City: | TOKYO | | | | | | | | | | |
| State/Country: | JAPAN | | | | | | | | | | |
| Postal Code: | 100-8071 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13816835 | | | | | | | | | | |
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| Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif | | | | | | | | | | | |

OP \$40.00 13816835

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, the undersigned hereby sell, assign, and transfer to **NIPPON STEEL & SUMITOMO METAL CORPORATION**, a corporation of **Japan**, having a place of business at **6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8071 Japan** ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest in and to any and all inventions and discoveries disclosed in

STEEL WIRE OF SPECIAL STEEL AND WIRE ROD OF SPECIAL STEEL

for which an application for Letters Patent of the United States of America

☐ was filed in the U.S. Patent and Trademark Office on _____ and assigned Patent Application Serial Number _____;

☐ was filed as International Application Number _____ in the _____ receiving office on _____; or

☐ is being filed herewith; and

NOW, THEREFORE, we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries, including all divisional, renewal, substitute, and continuation applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent.

2. Authorize Assignee to file patent applications in any or all countries for any or all of said inventions and discoveries in our names 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 inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; 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 said inventions and discoveries, said patent applications, and 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 conception, disclosure, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25th day
of January, 2013

Makoto Okonogi
Makoto OKONOGI

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25th day
of January, 2013

Shingo Yamasaki
Shingo YAMASAKI

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25th day
of January, 2013

Akifumi Kawana
Akifumi KAWANA

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25th day
of January, 2013

Hideaki Gotohda
Hideaki GOTOHDA