

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| 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>Rie Kaneko</td> <td>05/31/2013</td> </tr> <tr> <td>Nobue Fujibayashi</td> <td>06/04/2013</td> </tr> <tr> <td>Takahiro Kubota</td> <td>06/10/2013</td> </tr> </tbody> </table>  |                             | Name          | Execution Date        | Rie Kaneko          | 05/31/2013                  | Nobue Fujibayashi | 06/04/2013 | Takahiro Kubota | 06/10/2013 |                |       |              |          |
| Name   | Execution Date              |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| Rie Kaneko   | 05/31/2013                  |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| Nobue Fujibayashi  | 06/04/2013                  |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| Takahiro Kubota  | 06/10/2013                  |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| RECEIVING PARTY DATA   |                             |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| <table border="1"> <tr> <td>Name:</td> <td>JFE Steel Corporation</td> </tr> <tr> <td>Street Address:</td> <td>2-3, Uchisaiwai-cho 2-chome</td> </tr> <tr> <td>Internal Address:</td> <td>Chiyoda-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>100-0011</td> </tr> </table>                  |                             | Name:         | JFE Steel Corporation | Street Address:     | 2-3, Uchisaiwai-cho 2-chome | Internal Address: | Chiyoda-ku | City:           | Tokyo      | State/Country: | JAPAN | Postal Code: | 100-0011 |
| Name:  | JFE Steel Corporation       |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| Street Address:  | 2-3, Uchisaiwai-cho 2-chome |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| Internal Address:  | Chiyoda-ku                  |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| City:  | Tokyo                       |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| State/Country:   | JAPAN                       |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| Postal Code:   | 100-0011                    |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| 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>13825210</td> </tr> </tbody> </table>  |                             | Property Type | Number                | Application Number: | 13825210                    |                   |            |                 |            |                |       |              |          |
| Property Type  | Number                      |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| Application Number:  | 13825210                    |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| CORRESPONDENCE DATA  |                             |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| <p>Fax Number: 6104070701<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 610-407-0700<br/>       Email: aepinto@ratnerprestia.com<br/>       Correspondent Name: RatnerPrestia<br/>       Address Line 1: 1235 Westlakes Drive<br/>       Address Line 2: Suite 301<br/>       Address Line 4: Berwyn, PENNSYLVANIA 19312</p> |                             |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| ATTORNEY DOCKET NUMBER:  | JFE-170US                   |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| NAME OF SUBMITTER:   | Andrew J. Koopman           |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |
| Signature:   | /Andrew J. Koopman/         |               |                       |                     |                             |                   |            |                 |            |                |       |              |          |

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PATENT

Date:

07/08/2013

Total Attachments: 2

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|   |  |                          |
|---|--|--------------------------|
| <b>ASSIGNMENT - Patent Application</b>  |  | Docket Number: JFE-170US |
| Whereas, the Assignor, comprising the following named inventors:  |  |                          |
| <b>ASSIGNOR(s)/<br/>INVENTOR(s)</b>   | 1. Rie KANEKO  | 2. Nobue FUJIBAYASHI     |
|   | 3. Takahiro KUBOTA   | 4.                       |
|   | 5.   | 6.                       |
|   | 7.   | 8.                       |
| made an invention entitled: <b>HOT-DIP GALVANIZED STEEL SHEET AND METHOD FOR PRODUCING THE SAME</b>   |  |                          |
| for which an application for Letters Patent of the United States:<br><i>(Select one of the following):</i><br><input type="checkbox"/> is executed concurrently herewith<br><input checked="" type="checkbox"/> was filed in the U.S. Patent and Trademark Office on <u>March 20, 2013</u><br>as U.S. Patent Application Serial No.: <u>13/825,210</u>  |  |                          |
| <b>ASSIGNEE<br/>(Full Name and Address)</b>   | <b>JFE Steel Corporation</b><br><b>2-3, Uchisaiwai-cho 2-chome</b><br><b>Chiyoda-ku</b><br><b>Tokyo 100-0011 JAPAN</b> |                          |
| is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor,<br><br>Now, therefore, in consideration of the payment by Assignee to Assignor of a sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, intending to be legally bound, hereby sells, assigns and transfers to Assignee, its successors and assigns, the full and exclusive right, title and interest in and to said invention, all applications for Letters Patent for said invention, including all divisions, continuations, and continuations-in-part thereof, all rights to claim priority based thereon, and all Letters Patent, including reissues, to be obtained therefor, including any and all foreign patent rights in this invention corresponding thereto.<br><br>Assignor hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.<br><br>Assignor agrees it shall be legally bound, upon request of the Assignee or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the Assignor has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the Assignee, and to execute all instruments proper to carry out the intent of this instrument.<br><br>If the invention requires a biological deposit, Assignor also grants to Assignee such control over any deposit made by Assignor as may be necessary to the validity of the patent rights assigned herein. |  |                          |

**ASSIGNMENT - Patent Application**

Docket Number: JFE-170US

Assignor authorizes Assignor's attorney to insert at the end hereof, the serial number and filing date of the aforesaid application for United States Letters Patent and/or the Attorney Docket or file designation for this application if not identified above.

If the Assignor includes more than one individual, these obligations shall apply to these individuals both individually and collectively.

In witness whereof, this Assignment is executed on the day indicated below.

| Typed or Printed Name | Signature                | Date                 |
|-----------------------|--------------------------|----------------------|
| 1. Rie KANEKO         | <u>Rie Kaneke</u>        | <u>May 31</u> , 2013 |
|                       | * Witness to Assignor #1 |                      |
| 2. Nobue FUJIBAYASHI  | <u>Nobue Fujibayashi</u> | <u>June 4</u> , 2013 |
|                       | * Witness to Assignor #2 |                      |
| 3. Takahiro KUBOTA    | <u>Takahiro Kubota</u>   | <u>10 Jun</u> , 2013 |
|                       | * Witness to Assignor #3 |                      |
| 4.                    |                          |                      |
|                       | * Witness to Assignor #4 |                      |
| 5.                    |                          |                      |
|                       | * Witness to Assignor #5 |                      |
| 6.                    |                          |                      |
|                       | * Witness to Assignor #6 |                      |

SIGNATURE

Application for United States Letters Patent:

Serial No.: 13/825,210

Filed: March 20, 2013

Attorney Docket Number: JFE-170US

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\* Witness signature recommended, mandatory for some countries