504768918 02/08/2018

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| HIDEYUKI KIMURA | 05/17/2017 |
| SHUSAKU OTA | 05/09/2017 |
| NOBUYUKI ISHIKAWA | 05/24/2014 |
| SHINICHI KAKIHARA | 05/15/2017 |
| RYO NAGAO | 05/12/2017 |

RECEIVING PARTY DATA

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| City: | TOKYO | | |
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| Postal Code: | 100-0011 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15562291 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | JFE-353US |
|-------------------------|-------------------------------|
| NAME OF SUBMITTER: | JACOB BLUMERT, REG. NO. 75600 |
| SIGNATURE: | /Jacob Blumert/ |
| DATE SIGNED: | 02/08/2018 |

PATENT 504768918 REEL: 044865 FRAME: 0497

Total Attachments: 2

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PATENT REEL: 044865 FRAME: 0498

| ASSIGNMENT - Patent Application Docket Number: JFE-353US | | | | | |
|--|----------------------|--|--------|----------------------|--|
| Whereas, the Ass | signor, cor | nprising the following named inve | ntors: | | |
| | 1. Hideyuki KIMURA | | | 2. Shusaku OTA | |
| ASSIGNOR(s)/ INVENTOR(s) | 3. Nobuyuki ISHIKAWA | | | 4. Shinichi KAKIHARA | |
| | 5. Ryo NAGAO | | 6. | | |
| made an invention entitled: HIGH STRENGTH/HIGH TOUGHNESS STEEL SHEET AND METHOD FOR PRODUCING SAME | | | | | |
| for which an appli (Select one of the t | | Letters Patent of the United State | s: | | |
| was filed in | the U.S. I | ntly herewith Patent and Trademark Office on _ ation Serial No.: | | | |
| ASSIGNEE (Full Name and Address) | | JFE STEEL CORPORATION 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100-0011 Japan | | | |

is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor,

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.

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.

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.

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-353US

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 |
|-----------------|-------------------------------|--|-----------------------------|
| SIGNATURE | 1. Hideyuki KIMURA | Hideyuki Kimura | May 17, 2017 |
| | 2. Shusaku OTA | * Witness to Assignor #1 Ahusahu Ota | May 9. 2017 |
| | 3. Nobuyuki ISHIKAWA | * Witness to Assignor #2 | May 24, 2017 |
| | 4. Shinichi KAKIHARA | * Witness to Assignor #3 Shinichi Kal-ihava | May 1st, 2017 |
| eur | 5. Ryo NAGAO | * Witness to Assignor #4 Ayo Nagao | May 12, 2017. |
| | | * Witness to Assignor #5 | |
| Application for | United States Letters Patent: | | |
| Serial No.: | 15/562,291 | | |
| Filed: Se | eptember 27, 2017 | ←. | |
| Attorney Docke | - | | |
| | er of Assignment Pages 2 | * Witness signature recommended, m | andatory for some countries |

PATENT REEL: 044865 FRAME: 0500

RECORDED: 02/08/2018