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| PATENT ASSIGNMENT COVER SHEET |
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EPAS ID: PAT4280492

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HIDEAKI FURUMOTO | 01/30/2017 |
| JIRO HASAI | 01/31/2017 |
| HIRONORI ABE | 02/01/2017 |
| MASATOMO YAMANE | 01/30/2017 |
| KANJI HAYASHI | 02/01/2017 |
| SHINYA KANEMORI | 01/30/2017 |
| RECEIVING PARTY DATA | |
| Name: | PRIMETALS TECHNOLOGIES JAPAN, LTD. |
| Street Address: | 34-6, SHIBA 5-CHOME, MINATO-KU, |
| City: | TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 108-0014 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15435881 |
| CORRESPONDENCE DATA | |
| Fax Number: | (703)684-1157 |
| <i>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.</i> | |
| Phone: | 703-684-1120 |
| Email: | svannarath@mmpiaw.com |
| Correspondent Name: | MATTINGLY & MALUR, PC |
| Address Line 1: | 1800 DIAGONAL ROAD |
| Address Line 2: | SUITE 210 |
| Address Line 4: | ALEXANDRIA, VIRGINIA 22314 |
| ATTORNEY DOCKET NUMBER: | KAI-10864 |
| NAME OF SUBMITTER: | JOHN R. MATTINGLY |
| SIGNATURE: | /John R. Mattingly/ |
| DATE SIGNED: | 02/17/2017 |

Total Attachments: 4

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ASSIGNMENT
(譲渡証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Primetals Technologies Japan, Ltd., a corporation organized under the laws of Japan, located at 34-6, Shiba 5-chome, Minato-ku, Tokyo 108-0014 Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said Primetals Technologies Japan, Ltd., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

STRIP PROFILE CONTROL METHOD OF HOT FINISHING TANDEM ROLLING MILL AND HOT FINISHING TANDEM ROLLING MILL

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Primetals Technologies Japan, Ltd., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Primetals Technologies Japan, Ltd.

Signed on the date(s) indicated aside our signatures:

| | INVENTOR(S) (発明者フルネームサイン) | Date Signed (署名日) |
|-----|--|----------------------|
| 1) | <u>Hideaki Furumoto</u> Hideaki FURUMOTO | <u>1/30/2017</u> |
| 2) | <u>Jiro Hasai</u> Jiro HASAI | <u>1/31/2017</u> |
| 3) | _____ Hironori ABE | _____ |
| 4) | _____ Masatomo YAMANE | _____ |
| 5) | _____ Kanji HAYASHI | _____ |
| 6) | <u>Shinya Kanemori</u> Shinya KANEMORI | <u>1/30/2017</u> |
| 7) | _____ | _____ |
| 8) | _____ | _____ |
| 9) | _____ | _____ |
| 10) | _____ | _____ |

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|-----|------------------------------|----------------------|
| 1) | Hideaki FURUMOTO | |
| 2) | Jiro HASAI | |
| 3) | 安部 弘紀 Hironori ABE | 2 / 1 / 2017 |
| 4) | Masatomo YAMANE | |
| 5) | Kanji HAYASHI | |
| 6) | Shinya KANEMORI | |
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| 3) _____ Hironori ABE | _____ |
| 4) <u>山根 雅希</u> Masatomo YAMANE | 1 / 30 / 2017 |
| 5) _____ Kanji HAYASHI | _____ |
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