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To the Director of the U.S. Pat

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ached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Toshiaki MIZOGUCHI, Masanobu HAYAKAWA, Yoshiaki SUEMATSU, and Akira MIKASA

2. Name and address of receiving party(ies)

Name: Nippon Steel Corporation

Internal Address: _____

Street Address: 6-3, Otemachi 2-chome,

Chiyoda-ku

City: Tokyo

State: _____

Country: Japan

Zip: 100-8071

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Execution Date(s) February 7, 2008

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

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4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: John J. Kelly, Jr.

Internal Address: _____

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Phone Number: 212-425-7200

Fax Number: 212-425-5288

Email Address: _____

6. Total number of applications and patents involved:

01

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☐ Authorized to be charged by credit card

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 11-0600

Authorized User Name _____

9. Signature:

John J. Kelly, Jr.

Signature

March 3, 2008

Date

John J. Kelly, Jr.

(Reg. No. 29,182)

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

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PATENT

REEL: 020634 FRAME: 0654

U.S. ASSIGNMENT

11/991437

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IN CONSIDERATION of the sum of One Dollar (\$1.00), and of the good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

NIPPON STEEL CORPORATION

6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8071, Japan

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

CONTINUOUS CASTING METHOD OF STEEL

relating to International Patent Application PCT/JP 2006/ 317929 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____
(b) filed on _____
Serial No. _____ / _____

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) <u>Toshiaki Mizoguchi</u> (SIGNATURE)	<u>Toshiaki Mizoguchi</u> (TYPE NAME)	<u>February 7, 2008</u> (DATE)
2) <u>Masanobu Hayakawa</u> (SIGNATURE)	<u>Masanobu Hayakawa</u> (TYPE NAME)	<u>February 7, 2008</u> (DATE)
3) <u>Yoshiaki Suematsu</u> (SIGNATURE)	<u>Yoshiaki Suematsu</u> (TYPE NAME)	<u>February 7, 2008</u> (DATE)
4) <u>Akira Mikasa</u> (SIGNATURE)	<u>Akira Mikasa</u> (TYPE NAME)	<u>February 7, 2008</u> (DATE)
5) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
6) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
7) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
8) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)

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