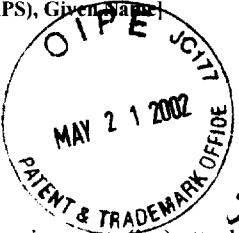




RE 102102171 EET

To the Honorable Commissioner of Patents and Trademarks:
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): [FAMILY NAME (ALL CAPS), Given Name] YAMAMOTO, Keiichi HASHIMOTO, Ritsuo TANI, Mitsuo YOKOO, Kazutoshi Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	2. Name and address of receiving party(ies) Name: MITSUBISHI HEAVY INDUSTRIES, LTD. Internal Address: Street Address: 5-1, Marunouchi 2-chome, Chiyoda-ku City: Tokyo State: ZIP: Country: Japan Postal Code: 100-8315 Additional name(s) & address(es) attached? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
---	--



5/21/02

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: **March 20, 2002**

4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: **March 20, 2002**

A. Patent Application No(s). **10/069,069**

B. Patent No.(s).

Additional numbers attached? YES NO

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: **BIRCH, STEWART, KOLASCH & BIRCH, LLP**
 Street Address: **P.O. BOX 747**
 City: **FALLS CHURCH** State: **VA** ZIP: **22040-0747**
 Country: **USA**

6. Total No. of applications/patents involved: **one (1)**

7. Total fee (37 C.F.R. § 3.41): **\$40.00**
 Enclosed
 Authorized to be charged to deposit account, if no fee attached.

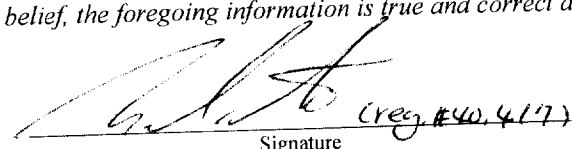
8. Deposit account number: **02-2448**

(Attach triplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Terrell C. Birch, #19,382
 Name of Person Signing/Reg. No.


 Signature (Reg. #40,417)

May 21, 2002
 Date

Total number of pages including cover sheet, attachments, and document: **five (5)**

05/23/2002 TDIAZ1 00000183 10069069
01 FC:581 40.00 DP

TCB/pjh
(Rev. 02/11/02)

Attachment to
RECORDATION FORM COVER SHEET

Continuation of Box 1--Name of conveying party(ies):

[FAMILY NAME (ALL CAPS), Family Name]

YUSA, Jyoji

SASAKI, Kunimasa

MIYAKE, Katsuyoshi

ISOGAMI, Katsuyuki

YAMADA, Mamoru

TANAKA, Tsuyoshi

ARAI, Takashi

IZU, Tadahiro

TSUNENARI, Keiji

YAMAMURA, Kazuto

IZAKI, Hiroshi

Continuation of Box 2--Name and address of receiving party(ies):

NIPPON STEEL CORPORATION

6-3, OTEMACHI 2-CHOME

CHIYODA-KU, TOKYO 100-8071

JAPAN

Continuation of Box 4--Application number(s) or patent number(s):

ASSIGNMENT

Application No. 10/069,069

Filed Feb. 21, 2002

Insert Name(s) of Inventor(s) ➡

WHEREAS, Keiichi YAMAMOTO, Ritsuo HASHIMOTO, Mitsuo TANI,
Kazutoshi YOKOO, Jyoji YUSA, Kunimasa SASAKI,
Katsuyoshi MIYAKE, Katsuyuki ISOGAMI, Mamoru YAMADA,
Tsuyoshi TANAKA, Takashi ARAI, Tadahiro IZU,
Keiji TSUNENARI, Kazuto YAMAMURA, Hiroshi IZAKI

Insert Title of Invention ➡

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in Twin-drum Continuous Casting Apparatus and Method

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).

Insert Date of Signing of Application ➡

on March 20, 2002; and

Insert Name of Assignee ➡

WHEREAS, MITSUBISHI HEAVY INDUSTRIES, LTD.
NIPPON STEEL CORPORATION

Insert Address of Assignee ➡

of 5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8315 Japan
6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8071 Japan

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and in any and all foreign countries.

CHECK BOX IF APPROPRIATE ➡

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;
and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u>March 20, 2002</u>	Name of Inventor	<u>Keiichi YAMAMOTO</u>	<u>Keiichi Yamamoto</u> (signature)
Date	<u>March 20, 2002</u>	Name of Inventor	<u>Ritsuo HASHIMOTO</u>	<u>Ritsuo Hashimoto</u> (signature)
Date	<u>March 20, 2002</u>	Name of Inventor	<u>Mitsuo TANI</u>	<u>Mitsuo Tani</u> (signature)
Date	<u>March 20, 2002</u>	Name of Inventor	<u>Kazutoshi YOKOO</u>	<u>Kazutoshi Yokoo</u> (signature)
Date	<u>March 20, 2002</u>	Name of Inventor	<u>Jyoji YUSA</u>	<u>Jyoji Yusa</u> (signature)
Date	<u>March 20, 2002</u>	Name of Inventor	<u>Kunimasa SASAKI</u>	<u>佐々木邦政</u> (signature)

Date March 20, 2002, Name of Inventor Katsuyoshi Miyake
(signature) Katsuyoshi MIYAKE

Date March 20, 2002, Name of Inventor 磯上 裕行
(signature) Katsuyuki ISOGAMI

Date March 20, 2002, Name of Inventor Mamoru Yamada
(signature) Mamoru YAMADA

Date March 20, 2002, Name of Inventor Tsuyoshi Tanaka
(signature) Tsuyoshi TANAKA

Date March 20, 2002, Name of Inventor Takashi Arai
(signature) Takashi ARAI

Date March 20, 2002, Name of Inventor Tadahiro Izu
(signature) Tadahiro IZU

Date March 20, 2002, Name of Inventor Keiji Tsunenari
(signature) Keiji TSUNENARI

Date March 20, 2002, Name of Inventor Kazuto Yamamura
(signature) Kazuto YAMAMURA

Date March 20, 2002, Name of Inventor Hiroshi Izaki
(signature) Hiroshi IZAKI