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U.S. DEPARTMENT OF COMMERCE
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5-17-00

Attorney Docket No. 106090

10571 U.S. PTO 09/572449

To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.

1. A. Name of conveying party:
Sachihiro IIDA

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

2. A. Name and address of receiving party:
KAWASAKI STEEL CORPORATION
1-28. KITAHONMACHIDORI 1-CHOME,
CHUO-KU, KOBE-SHI, HYOGO 651-0075
JAPAN

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

3. A. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

B. Execution Date: May 15, 2000

09,572449

4. A. If this document is being filed together with a new application, the execution date of the application is: May 15, 2000

B. Patent Application No.(s) _____

C. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: James A. Oliff

Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 19928
Alexandria, VA 22320

6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00

B. Enclosed (Check No. 108596)

8. Credit any overpayment or charge any underpayment to
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06/02/2000 JS HABAZZ 00000178 09572449

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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.

James A. Oliff, Registration No. 27,075
Edward A. Brown, Registration No. 35,033

Date: May 17, 2000

Total number of pages including cover sheet, attachments, and document: 2

PATENT
REEL: 010821 FRAME: 0045

ASSIGNMENT

(1) Sachihiro Iida (5) _____
 (2) _____ (6) _____
 (3) _____ (7) _____ and
 (4) _____ (8) _____

(1-8) Insert Name(s) of Inventor(s)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert name of Assignee (9) Kawasaki Steel Corporation

(10) Insert address of Assignee (10) of 1-28, Kitabonmachidori 1-chome, Chuoh-ku, Kobe-shi, Hyogo 651-0075 Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as HEARTH ROLLS FOR HEATING FURNACE AND SOAKING FURNACE OF VERTICAL HEAT TREATING FURNACE AND VERTICAL

(11) Insert identification of invention, such as Title, Case Number or Foreign Application Number

(11) HEAT TREATING FURNACE INCLUDING HEARTH ROLLS (Case No. 106090)

for which the undersigned has (have) executed an application for patent in the United States of America

(12) Insert Date of Signing of Application

(12) on May 15, 2000

(13) Alternative identification for filed applications

(13) U.S. application Serial Number _____
 filed May 17, 2000

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

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) 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.

6) The undersigned hereby grant(s) the firm of OLIFF & BERRIDGE 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 United States Patent and Trademark Office for recordation of this document.

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

Date May 15, 2000 Name of Inventor Sachihiro Iida Sachihiro Iida (SEAL)

Date _____ Name of Inventor _____ (SEAL)

Date _____ Name of Inventor _____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date _____ Witness _____
 Date _____ Witness _____