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15 JAN 1999

Assistant Commissioner for Pat  
Box Assignments  
Washington, D.C. 20231

04-05-1999

T U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office



Attorney Docket No. 102583

101001608

To the Assistant Commissioner for Patents: Please record the attached original document or copy thereof.

1. A. Name of conveying parties:  
Akira YORIFUJI  
Takaaki TOYOOKA  
Taro KANAYAMA  
  
B. Additional name(s) of conveying party(ies) attached?  
 Yes  No

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

3. A. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
  
B. Execution Date: January 13, 1999

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

4. A. If this document is being filed together with a new application, the execution date of the application is: January 13, 1999

B. Patent Application No.(s) \_\_\_\_\_

C. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No 09-214,935

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. 65673)

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

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.

Date: January 15, 1999

James A. Oliff Registration No. 27,075  
Jay A. Stelacone Registration No. 42,168

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

DEPOSIT ACCOUNT USE  
AUTHORIZATION  
Please grant any extension  
necessary for entry;  
Charge any fee due to our  
Deposit Account No. 15-0461

PATENT  
REEL: 9853 FRAME: 0951

66-51-1

# ASSIGNMENT

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

- (1) Akira Yorifuji (5) \_\_\_\_\_
- (2) Takaaki Toyooka (6) \_\_\_\_\_
- (3) Taro Kanayama (7) \_\_\_\_\_ and
- (4) \_\_\_\_\_ (8) \_\_\_\_\_

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, Kitahonmachi-dori 1-chome, Chuo-ku, Kobe-shi, Hyogo-ken, 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

(11) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number

(11) Plug and Mandrel Bar for Seamless Steel Pipe Rolling Operation and Method for Manufacturing (Case No. 102583)

Seamless Steel Pipe 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 January 13, 1999

(13) Alternative Identification for filed applications

(13) U.S. application Serial Number \_\_\_\_\_

filed January 15, 1999

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 January 13, 1999 Name of Inventor Akira Yorifuji Akira Yorifuji (SEAL)

Date January 13, 1999 Name of Inventor Takaaki Toyooka Takaaki Toyooka (SEAL)

Date January 13, 1999 Name of Inventor Taro Kanayama Taro Kanayama (SEAL)

Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_ (SEAL)

Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_ (SEAL)

Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_ (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 \_\_\_\_\_

PATENT