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FINANCE SECTION

To: The Commissioner of Patent and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

- New Execution Date: December 14, 1995
- Resubmission (Non-Recordation)
Document ID# 102471776
- Correction of PTO Error
Reel # Frame #
- Corrective Document
Reel #17748 Frame #0461

Conveyance Type

- Assignment
- License
- Merger
- Security Agreement
- Change of Name
- Other

U.S. Government

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- Department File
- Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name ISOYAMA, Shigeru

Second Party

Name HIRABAYASHI, Takeshi

Receiving Party

Mark if additional names of receiving parties attached

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Address (line 2) Chiba

Address (line 3) 260 Japan

Correspondent Name and Address

Area Code and Telephone Number 312.922.6262

Name Orum & Roth

Address (line 1) 53 West Jackson Boulevard

Address (line 2)

Address (line 3) Chicago, Illinois 60604

Application Number or Patent Number

Patent Application Number

Patent Number

US 6,218,649 (A Division of US Patent No. 5,951,903)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41) \$ 40.00

Method of Payment: Enclosed Deposit Account

Deposit Account Number # 4-2219

Authorization to charge additional fees: Yes No

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. Charges to deposit account are authorized, as indicated herein.

Catherine L. Gemrich

Catherine L. Gemrich

December 30, 2003

Name of Person Signing

Signature

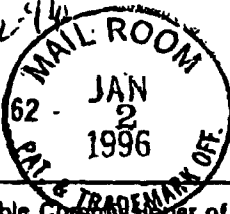
Date

Attorney Docket Number: 5702
F166 (Orum & Roth)

Patent Numbers: US 6,218,649

Names of Conveying Parties (cont.):

Third Party: NIKAIDO, Hideyuki
Fourth Party: AMAGASA, Toshiaki
Fifth Party: TAMURA, Nozomu
Sixth Party: YAMASAKI, Takahiro
Seventh Party: OSADA, Masashi
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Ninth Party: TAKECHI, Toshisada
Tenth Party: TAKASHIMA, Norio
Eleventh Party: NITTA, Junzo
Twelfth Party: AMANUMA, Shuji



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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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

1. Name of conveying party(ies):

Shigeru ISOYAMA, Takeshi HIRABAYASHI, Hideyuki NIKAIDO, Toshiaki AMAGASA, Nozomu TAMURA, Takahiro YAMASAKI, Masashi OSADA, Hirotsuka YAMADA, Toshisada TAKECHI, Norio TAKASHIMA, Junzo NITTA, Shuji AMANUMA.

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City: Chiba State: JAPAN Zip: 260

Additional name(s) and address(es) attached?
 Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: 14 December 1995

Application number(s) or Patent number(s): 08/613,789

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached? Yes No

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

DVORAK AND TRAUB
 53 West Jackson Boulevard
 Chicago, Illinois 60604

6. Total number of applications and patents involved: 1

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

Enclosed
 Authorized to be charged to deposit account
 Payment submitted previously (See attached letter)

8. Deposit account number: 4-2219
 (Attach duplicate copy of this page if paying by deposit account)

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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.

George F. Dvorak December 27, 1995
 Signature Name of Person Signing Date

Total number of pages comprising cover sheet: 1

ASSIGNMENT OF U.S. PATENT APPLICATION

In consideration of the sum of One Dollar (\$1.00) in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned

Inventor(s)
Full Name(s)

Shigeru ISOYAMA, Takeshi HIRABAYASHI, Hideyuki NIKAIDO, Toshiaki AMAGASA, Nozomu TAMURA,
Takahiro YAMASAKI, Masashi OSADA, Hirotsuke YAMADA, Toshisada TAKECHI, Norio TAKASHIMA,
Junzo NITTA, Shuji AMANUMA

hereby sell, assign and transfer to

Assignee
Name and
Address

KAWASAKI STEEL CORPORATION, STEEL DEVELOPMENT & PRODUCTION DIVISION, CHIBA
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(hereinafter called the Assignee) the entire right, title, and interest in and to any and all improvements which are disclosed in the Application for United States Letters Patent entitled

Title of
Invention

"METHOD AND APPARATUS JOINING METAL PIECES"

which application was

Complete
either
a) or b)

a) executed by the undersigned on the day of 19
b) filed on the 8th day of August 1995

Serial No 08/513,789
including any and all United States Letters Patents which may be granted therefore and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property.

It is hereby authorized and requested that the Commissioner of Patents issue any and all of said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, renewal, and reissue patent applications; execute all rightful other papers; and generally do everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection.

Signed at Tokyo, Japan

this 14th day of December 19 95

Inventor(s)
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Witnesses'
Full
Signatures

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Yoshihiko Orono