

03-12-1999



100980496

Attorney Docket No. 1028

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

1. A. Name of conveying party(ies):  
Toshiharu KOBAYASHI  
Yutaka KOIZUMI  
Hiroshi HARADA  
Toshihiro YAMAGATA  
Akira TAMURA  
Seiya NITTA

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

226-99

2. A. Name and address of receiving party(ies):  
NATIONAL RESEARCH INSTITUTE FOR  
METALS, SCIENCE AND TECHNOLOGY AGENCY  
2-1, SENGEN 1-CHOME  
TSUKUBA-SHI, IBARAKI-KEN, JAPAN  
and  
KAWASAKI JUKOGYO KABUSHIKI KAISHA  
1-1, HIGASHIKAWASAKI-CHO 3-CHOME  
CHUO-KU, KOBE-SHI, HYOGO-KEN, JAPAN

09/25/99

3. A. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

B. Execution Date: February 24, 1999

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

09257,910

4. A. If this document is being filed together with a new application, the execution date of the application is: February 24, 1999

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. 66573 )

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.*

Stuart I. Smith  
James A. Oliff Registration No. 27,075  
Stuart I. Smith Registration No. 42,159

Date: February 1999

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

# ASSIGNMENT

- (1-8) Insert Name(s) of Inventor(s)
- |                                |                         |
|--------------------------------|-------------------------|
| (1) <u>Toshiharu KOBAYASHI</u> | (5) <u>Akira TAMURA</u> |
| (2) <u>Yukaka KOIZUMI</u>      | (6) <u>Seiya NITTA</u>  |
| (3) <u>Hiroshi HARADA</u>      | (7) _____ and           |
| (4) <u>Toshihiro YAMAGATA</u>  | (8) _____               |

- (9) Insert Name of Assignee  
 (10) Insert Address of Assignee
- (9) NATIONAL RESEARCH INSTITUTE FOR METALS, SCIENCE AND TECHNOLOGY AGENCY, of 2-1, Sengen 1-Chome, Tsukuba-Shi, Ibaraki-Ken, Japan  
 (10) KAWASAKI JUKOGYO KABUSHIKI KAISHA, of 1-1, Higashikawasaki-Chu 3-Chome, Chuo-Ku, Kobe-Shi, Hyogo-Ken, Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all divisions, continuations, substitutes, and reissues, and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

- (11) Insert Identification, such as Title, Case Number or Foreign Application Number
- (11) "Ni-BASE DIRECTIONALLY SOLIDIFIED ALLOY CASTING MANUFACTURING METHOD"

(Case No. 102893)  
 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 February 24, 1999

- (13) Alternative Identification for filed applications
- (13) U.S. application Serial Number \_\_\_\_\_  
 filed February 26, 1999

1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

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, or any patent or reissue application based thereon, 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, maintain or confirm by reissue or reexamination 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 divisional, continuing or reissue applications 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 agreements 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	<u>February 24, 1999</u>	Name of Inventor	<u>Toshiharu Kobayashi</u> (SEAL)
Date	<u>February 24, 1999</u>	Name of Inventor	<u>Yukaka Koizumi</u> (SEAL)
Date	<u>February 24, 1999</u>	Name of Inventor	<u>Hiroshi Harada</u> (SEAL)
Date	<u>February 24, 1999</u>	Name of Inventor	<u>Toshihiro Yamagata</u> (SEAL)
Date	<u>February 24, 1999</u>	Name of Inventor	<u>Akira Tamura</u> (SEAL)
Date	<u>February 24, 1999</u>	Name of Inventor	<u>Seiya Nitta</u> (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 February 24, 1999 Witness Shiro Okazaki  
 Date February 24, 1999 Witness Toshinaga Kanada