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FORM PTO-1596  
1-31-92



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

DOCKET NO. 4541-004

102757734

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

5-11-04

1. Name of conveying party(ies):

1. Koji HIROKAWA

2. Name and address of receiving party(ies):

Name: TECHNOLOGY UNION CO., LTD.

Street Address: 742-1 Paeksok-Dong

City: Chonan-City

State: Chungchng-Namdo

Country: Republic of Korea

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: May 7, 2004

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

4. Application number(s) or patent number(s):

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

A. Patent Application No(s).

10/019,772 filed January 4, 2002

B. Patent No(s).

Additional numbers attached?  Yes  No

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

Name:

LOWE HAUPTMAN GILMAN & BERNER

Internal Address:

Street Address: 1700 Diagonal Road, Suite 300

City: Alexandria State: VA Zip: 22314

6. Total number of applications and patents involved: one

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

- Enclosed
- Authorized to be charged to deposit account
- Credit Card payment form enclosed

8. Deposit account number: 07-1337

DO NOT USE THIS SPACE

9. Signature.

Randy A. Noranbrock, 42,940

Name of Person, Registration No.

Signature

May 11, 2004

Date

Total number of pages including cover sheet, attachment, and document: 3

CMB No. 0851-0011 (exp. 4/94)

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40.00 OP

PATENT  
REEL: 015388 FRAME: 0530

# ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

1) **Koji HIROKAWA**

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

**TECHNOLOGY UNION CO., LTD.**

having a place of business at

**742-1, Paeksok-Dong, Chonan-City, Chungchong-Namdo, Republic of Korea**

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

**DISINTEGRATIVE CORE FOR HIGH PRESSURE CASTING, METHOD FOR MANUFACTURING THE SAME, AND METHOD FOR EXTRACTING THE SAME**

- (a) for which an application for United States Letters Patent was filed on January 4, 2002, and identified by United States Patent Application No. 10/019,772; or
- (b) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) Hirokawa Koji  
Name: Koji HIROKAWA

Date: May 7, 2004