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RECORDATION FORM COVER SHEET

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PATENTS ONLY

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

1. Name of conveying party(ies):
 Hideo Kokubo
 Hirohito Ishida
 Zinpachi Kawasaki

Additional Name(s) of conveying party(ies) attached Yes No

2. Name and address of receiving party(ies):
 Name: Nippon Crucible Co., Ltd.
 Internal Address: _____

 Street Address: 21-3, Ebisu 1-chome,
Shibuya-ku, Tokyo-to, Japan

 City: _____ State: _____ ZIP: _____

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: December 19, 1997

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

If this document is being filed together with a new application, the execution date of the application is: December 19, 1997

A. Patent Application No.(s)
04/21/1998 RRABELO 00000014 09056847
01 FC:581 40.00 DP

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: R. Eugene Varndell, Jr.
 Internal Address: _____

 Street Address: Varndell Legal Group
Suite 220, 1150 S. Washington St.
 City: Alexandria State: VA ZIP: 22314

6. Total number of application and patents involved: 1

7. Total fee (37 C.F.R. § 3.41) \$ 40.00

Enclosed
 Authorized to be charge to deposit account

8. Deposit Account Number: _____

(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 true document.

R. Eugene Varndell, Jr.
 Name of Person Signing

Signature

March 24, 1998
 Date

ASSIGNMENT

WHEREAS: The ASSIGNOR, comprising the following named inventor(s):

NAME &
ADDRESS OR
RESIDENCE OF
INVENTOR(S)

- 1. Hideo KOKUBO, of 21-3, Nakashinden, Tsurugashima-shi, Saitama-ken, Japan
- 2. Hirohito ISHIDA, of Kopo Onishi 102, 143, Higashimitsugi, Sayama-shi, Saitama-ken, Japan
- 3. Zinpachi KAWASAKI, of 107-308, Takamori-dai 9-chome, Kasugai-shi, Aichi-ken, Japan
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____

TITLE OF
INVENTION

has invented and owns a certain invention entitled:

CHECK ONE BOX

- executed by each inventor concurrently with the execution of this assignment, and
- executed on December 19, 1997, and
- filed on _____, Serial No. _____, and

ASSIGNEE
WITH ADDRESS

WHEREAS, the ASSIGNEE NIPPON CRUCIBLE CO., LTD.
21-3, Ebisu 1-chome, Shibuya-ku, Tokyo-to, Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any United States Letters Patent that may be granted therefor.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns, and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the United States which may be granted therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may granted.

ASSIGNOR agrees to provide ASSIGNEE or its (his) representatives any facts known to ASSIGNOR concerning said invention, testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The ASSIGNOR covenants that no assignment, sale, or agreement has been or will be made or entered into which would conflict with this assignment or sale.

The undersigned hereby grant(s) the firm of Varndell Legal Group, Suite 220, 1150 South Washington Street, Alexandria, Virginia 22314, 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, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1.	<u>HIDEO KOKUBO</u> (SIGNATURE OF INVENTOR) Hideo KOKUBO	<u>December 19, 1997</u> (DATE)
2.	<u>HIROHITO ISHIDA</u> (SIGNATURE OF INVENTOR) Hirohito ISHIDA	<u>December 19, 1997</u> (DATE)
3.	<u>ZINPACHI KAWASAKI</u> (SIGNATURE OF INVENTOR) Zinpachi KAWASAKI	<u>1997. 12. 19</u> (DATE)
4.	_____ (SIGNATURE OF INVENTOR)	_____ (DATE)
5.	_____ (SIGNATURE OF INVENTOR)	_____ (DATE)
6.	_____ (SIGNATURE OF INVENTOR)	_____ (DATE)
7.	_____ (SIGNATURE OF INVENTOR)	_____ (DATE)
8.	_____ (SIGNATURE OF INVENTOR)	_____ (DATE)