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PATENTS ONLY

05-24-2000

To the Honorable Assistant Secretary or copy(ies) thereof.



Please record the attached original document(s)

1. Name of conveying party(ies):

101366118

and address of receiving party(ies):

Hideki WATANABE, Hiroshi MORITA

Name: SUMITOMO METAL INDUSTRIES, LTD.

Additional name(s) of conveying party(ies) attached? NO

Street Address: 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041, Japan

3. Nature of conveyance:

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

City: Country:

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Execution Date: April 5, 2000, respectively

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: April 5, 2000, respectively

A. Patent Application No.(s)
NEW, filed May 15, 2000

B. Patent No.(s)
, issued

Additional numbers attached? NO

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

Name: WENDEROTH, LIND & PONACK, L.L.P.
Attn: Warren M. Cheek, Jr., Esq.

6. Total number of applications and patents involved:
One

Street Address: 2033 K Street, N.W., Suite 800

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

City: Washington, State: DC ZIP: 20006

Enclosed (Check No. 38026)
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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.

Warren M. Cheek, Jr., Reg. No. 33,367
Name of Person Signing

Warren Cheek
Signature

May 15, 2000
Date

Total number of pages including cover sheet: 3

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02 FC:581

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Watanabe Hideki

Morita Hiroshi

**Insert Name(s)
of Inventor(s)**

the undersigned hereby sell(s) and assign(s) to

Sumitomo Metal Industries., Ltd.

**Insert Name(s)
of Assignee(s)**

Address

of 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

METHOD AND APPARATUS FOR PULLING A SINGLE CRYSTAL

**Title of
Invention**

for which an application for patent in the United States has been executed by the undersigned on

April 5, 2000

**Date of Signing
Application**

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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.

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.

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 or reissue 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.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, DC 20006, 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 Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date April 5, 2000, Name of Inventor Hideki Watanabe

Date April 5, 2000, Name of Inventor Hiroshi Imurita

Date _____, Name of Inventor _____

Date _____, Name of Inventor _____

Date _____, Name of Inventor _____

Date _____, Name of Inventor _____

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Toshiyuki Fujiwara

Witness Steve Coates

ACKNOWLEDGMENT

_____ } SS

This _____ day of _____, 19_____, before me

personally came the above-named _____

to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

Official Signature

Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. _____ Filing Date _____

Applicant Reference No. _____ Atty. Docket No. _____

Title of Invention _____