09-26-2001

U.S. DEPARTMENT OF COMMERCE

SHEET

Patent and Trademark Office Docket No. 474082001200

SEP 1 0 7000 2 10185463	32
()	se record the attached original documents or copy thereof.
Name of conveying party(ies): 1. Masahiko MIZUTA 2. Tokuji MAEDA 3. Masato TABUCHI	2. Name and address of receiving party(ies): SUMITOMO METAL INDUSTRIES, INC. 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi Osaka 541-0041 Japan Additional name(s) & address(es) attached? □ Yes ► No
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the e A. Patent Application No.(s) 09/864,936 Additional numbers attached? 图口 Yes 图 No	execution date of the application is: B. Patent No.(s)
5. Name and address of party to whom correspondence concerning document should be mailed: Kevin R. Spivak Morrison & Foerster LLP 2000 Pennsylvania Avenue, N.W. Washington, D.C. 20006-1888	6. Total number of applications and patents involved: 1 7. Total fee (37 C.F.R. § 3.41): \$40.00 ☐ Enclosed ☐ Authorized to be charged to deposit account. Transmitt form is attached to this submission in duplicate (for fee processing 8. Deposit account number: 03-1952 (Ref. 474082001200)
The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be	
DO NOT USI	E THIS SPACE
document. Name: Kevin R. Spivak Registration No: 43,148 Signature	is true and correct and any attached copy is a true copy of the original September 20, 2001 Date
Total number of pages comprising co 5/2001 DBYRNE 00000092 031952 09864936 C:581 40.00 CH	over sheet, attachments and document: 3
U.S. Patent and	th required cover sheet information to: Trademark Office Public Records

Box Assignments

Crystal Gateway 4, Room 335 Washington, D.C. 20231

dc-280103

PATENT REEL: 012185 FRAME: 0633

MORRISON & FOERSTER LLP

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign(s), transfer(s) and set(s) over to:

SUMITOMO METAL INDUSTRIES, LTD. 5-33, KITAHAMA 4-CHOME CHUO-KU, OSAKA-SHI OSAKA 541-0041 JAPAN

(hereinafter designated as the "ASSIGNEE"), its successors and assigns, the entire right, title, and interest for the United States in the invention, and all applications for patent and any Letters Patent which may be granted therefor, including said application, and all United States Letters Patent which may be granted thereof, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of said Letters Patent when granted to be held by said ASSIGNEE, its successors, assigns or their legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been and enjoyed by Assignor(s) if this assignment had not been made, the application being known by the title:

METHOD FOR PRODUCING SINGLE CRYSTAL

Attorney Docket No.: 474082001200

for which the undersigned has/have executed an application for patent in the United States of America on the same day herewith. Where this instrument is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No.: 09/864,936 Filing Date: May 25, 2001

1. The undersigned hereby agree(s) to sign and execute any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extension of interference proceedings, or otherwise to secure the title thereto to the ASSIGNEE.

Page 1 of 2

dc-269419

PATENT REEL: 012185 FRAME: 0634

- 2. 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 of similar agreements.
- 3. 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.
- 4. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents in the United States to issue any and all Letters Patent resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE.
- 5. The undersigned hereby grant(s) to the firm of Morrison & Foerster LLP 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 WHEREBY, executed by the undersigned on the date(s) opposite the undersigned name(s).

July 26, 2001	Masahiko Diguta Typed Name: Masahiko MIZUTA
Date	Typed Name: Masahiko MIZUTA
July 30, 200/ Date	<u>Joseph Maeda</u> Typed Name: Tokuji MAEDA
√Date	Typed Name: Tokuji MAEDA
July 26, 2001	Masata Tabuchi
Date	Typed Name: Masato TABUCHI

This assignment may be signed before a U.S. Notary Public or before at least two witnesses who also sign here:

July 30, 200/	Katsunori hakashima
Date	Typed Name: KATSUNOR I NAKASHIMA
July - 30, 2001	Kon Viato
Date	Typed Name: KOJI KA70

Page 2 of 2

RECORDED: 09/20/2001