

12-28-98

01-19-1999

FORM PTO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94)

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

100944586

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

1. Name of conveying party(ies):

Naritoshi Ohtsukasa, Hiroshi Yoshinada, and Kazuhiro Mimura

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

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

Name: Komatsu Electronic Metals Co., Ltd.

Internal Address:

Street Address: 2612, Shinomiya, Hiratuka-shi, Kanagaswa, 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 21, 1998

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 28, 1998

09221,514

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

01/12/1999 STATIS 0000016 09221514 02 FC:581 40.00 OP

Name: Gerald T. Shekleton, Esq.

Internal Address:

Street Address: WELSH & KATZ, LTD. 120 South Riverside Plaza / 22nd Floor City: Chicago State: Illinois ZIP: 60603-3913

6. Total number of applications and patents involved: 1

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

- Enclosed, Authorized to be charged 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 document.

Gerald T. Shekleton Name of Person Signing

Signature

December 28, 1998 Date

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

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents Box Assignments Washington, D.C. 20231

PATENT REEL: 9696 FRAME: 0077

A S S I G N M E N T

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

SINGLE CRYSTAL PULLING APPARATUS AND DROPPAGE PREVENTING DEVICE

for which I/WE executed an application for United States Letters Patent concurrently herewith or on \_\_\_\_\_ or filed an application for United States Letters Patent on \_\_\_\_\_, 19\_\_\_\_ (Serial No. \_\_\_\_\_); and

WHEREAS, Komatsu Electronic Metals Co., Ltd., a corporation of Japan, whose post office address is 2612, Shinomiya, Hiratsuka-shi, Kanagawa, Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

- |  |  |                             |
|--|--|-----------------------------|
| 1. Full Name of Sole or First Assignor | : Assignor's Signature                                 | : Date                      |
| Naritoshi Ohtsukasa                    | : <u>Naritoshi Ohtsukasa</u>                           | : December 21, 1998         |
| Address                                | 3-29-30-301 Isehara, Isehara-shi, Kanagawa-ken, Japan  | : Citizenship<br>: Japanese |
| 2. Full Name of Second Assignor        | : Assignor's Signature                                 | : Date                      |
| Hiroshi Yoshinada                      | : <u>Hiroshi Yoshinada</u>                             | : December 21, 1998         |
| Address                                | 3-10-2 Tamagawa-Gakuen, Machida-shi, Tokyo, Japan      | : Citizenship<br>: Japanese |
| 3. Full Name of Third Assignor         | : Assignor's Signature                                 | : Date                      |
| Kazuhiro Mimura                        | : <u>Kazuhiro Mimura</u>                               | : December 21, 1998         |
| Address                                | 1-8-8-B Minamihara, Hiratsuka-shi, Kanagawa-ken, Japan | : Citizenship<br>: Japanese |