

MRD 9.5.00

11-03-2000

cket No.: YYG-73467

FORM PTO-1595 (Modified)
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)
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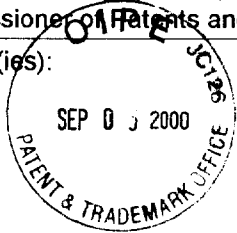
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Hiroataka Nakajima
Toshirou Kotooka
Yoshiyuki Shimanuki
Hiroshi Inagaki



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

Name: Komatsu Electronic Metals Co., Ltd.

Address: 2612, Shinomiya Hiratsuka-shi

City: Kanagawa

State/Prov.: _____

Country: Japan

ZIP: 254-0014

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

3. Nature of conveyance:

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

Execution Date: 8/2/00; 8/3/00; 8/8/00 and 8/10/00

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

4. Application number(s) or registration numbers(s):

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

Patent Application No.

Filing date

B. Patent No.(s)

09/569,086

May 10, 2000

09/08/2000 CVORACHA 00000002 09569086

05 FC:581

40.00 DP

Additional numbers attached? Yes No

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

Name: John A. Griecci, Esquire

Registration No. 39,694

Address: Sheppard, Mullin, Richter & Hampton LLP

333 South Hope Street, 48th Floor

City: Los Angeles

State/Prov.: California

Country: USA

ZIP: 90071

6. Total number of applications and patents involved: 1

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

- Enclosed - Any excess or insufficiency should be credited or debited to deposit account
- Authorized to be charged to deposit account

8. Deposit account number:

19-1853

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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.

John A. Griecci

August 31, 2000

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

PATENT

REEL: 011078 FRAME: 0004



RECORDATION FORM COVER SHEET (CONT.)

Additional Names of Conveying Parties

U.S. Serial No.: 09/569,086

Filing Date: May 10, 2000

Shigeki Kawashima
Makoto Kamogawa

ASSIGNMENT

WHEREAS, Hirotaka Nakajima, of Kanagawa, Japan, Toshirou Kotooka, of Kanagawa, Japan, Yoshiyuki Shimanuki, of Kanagawa, Japan, Hiroshi Inagaki, of Kanagawa, Japan, Shigeki Kawashima, of Kanagawa, Japan and Makoto Kamogawa, of Kanagawa, Japan, Assignors, have invented a new and useful METHOD AND APPARATUS FOR MANUFACTURING SINGLE-CRYSTAL INGOT, for which an application for United States Letters Patent, Serial No. 09/569,086, was filed May 10, 2000; and

WHEREAS, Assignors believe themselves to be the original, first and joint inventors of the invention disclosed and claimed in the application for Letters Patent; and

WHEREAS, Komatsu Electronic Metals Co., Ltd., a Japanese corporation, having a place of business at 2612, Shinomiya Hiratsuka-shi, Kanagawa 254-0014, Japan, Assignee, desires to acquire by formal, recordable assignment the entire right, title and interest in and to the invention, the application, and any Letters Patent that might be granted for the invention in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby sell, assign and transfer to Assignee, the entire right, title and interest in and to the invention, the application, and any Letters Patent that might be granted for the invention in the United States and throughout the world, including the right to file foreign applications directly in the name of Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise.

Further, Assignors agree that, upon request and without further compensation, but at no expense to Assignor, they and their legal representatives and assigns will perform all lawful acts, including the execution of papers and the giving of testimony, that might be necessary or desirable for obtaining, sustaining, reissuing or enforcing Letters Patent in the United States and throughout the world for the invention, and for perfecting, recording or maintaining the title of Assignee, its successors and assigns, to the invention, the application, and any Letters Patent granted for the invention in the United States and throughout the world.

Assignors represent and warrant that they have not granted and will not grant to others any rights inconsistent with the rights granted by this Assignment.

Assignors authorize and request the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for the invention, whether on the application or on any subsequently filed division, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in the invention.

IN WITNESS WHEREOF, Assignors have executed this Assignment.

Assignors

Date: Aug. 3, 2000

Hiroataka Nakajima
Hiroataka Nakajima

Date: Aug. 10, 2000

Toshirou Kotooka
Toshirou Kotooka

Date: Aug. 8, 2000

Yoshiyuki Shimanuki
Yoshiyuki Shimanuki

Date: Aug. 2, 2000

Hiroshi Inagaki
Hiroshi Inagaki

Date: Aug. 8, 2000

Shigeki Kawashima
Shigeki Kawashima

Date: Aug. 10, 2000

Makoto Kamogawa
Makoto Kamogawa

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