

01-25-2001



FORM PTO-1595

(Rev. 6-93)

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OMB No. 0651-0011 (exp. 4/94)

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To the Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Komatsu Electronic Metals Co., Ltd.

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

3. Nature of conveyance:

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

Execution Date: November 13, 2000

1-10-01

2. Name and address of receiving party(ies)

Name: Research Development Corporation of Japan

Internal Address: _____

Street Address: 1-8, Hon-cho 4-chome, Kawaguchi-shi

City: Saitama-ken, 332 Japan

State: _____ ZIP: _____

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 execution date of the application is: _____

A. Patent Application No. (s)

B. Patent No. (s)

5,683,504

Additional numbers attached? Yes No

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

Name: Russell D. Orkin

Internal Address: Webb Ziesenheim Logsdon

Orkin & Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

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 triplicate 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.

Russell D. Orkin, Reg. No. 25,363
Name of Person Signing

Signature

January 4, 2001
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, U.S. Patent and Trademark Office
Office of Public Records, Crystal Gateway 4, Room 335
Washington, D.C. 20231

01/24/2001 GTDM11 00000306 5683504

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PATENT
REEL: 011442 FRAME: 0473

ASSIGNMENT DEED

WHEREAS, Komatsu Electronic Metals Co., Ltd., a corporation of Japan, having a place of business at 2612 Shinomiya, Hiratsuka-shi, Kanagawa-ken 254, Japan (hereinafter referred to as ASSIGNOR), is the owner of a partial right, title and interest in U.S. Patent No. 5683504 (hereinafter "PATENT").

WHEREAS, Research Development Corporation of Japan., a corporation of Japan, having a place of business at 1-8, Hon-cho 4-chome, Kawaguchi-shi, Saitama-ken, 332 Japan (hereinafter referred to ASSIGNEE) is desirous of acquiring the interest owned by ASSIGNOR in and to the PATENT;

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNOR does hereby assign, sell, transfer and set over unto the ASSIGNEE ASSIGNOR's entire right, title, and interest in and to said PATENT.

Signed this 13th day of November, 2000.

KOMATSU ELECTRONIC METALS CO., LTD.

By: Kunio Ikeda
Typed Name: KUNIO IKEBA
Title: president

96-03US