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SHEET

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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):

Osamu Yamashita (04/21/2003) and Ken Makita
(04/16/2003)Additional name(s) of conveying party(ies)
attached?☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment☐ MergerExecution Date: see Box 1, conveying parties

2. Name and address of receiving party(ies)

Name: Sumitomo Special Metals Co., Ltd.

Internal Address: _____

Street Address: _____

7-19, Kitahama 4-chome,
Chuo-Ku, Osaka-Shi
Osaka 541-0041, JapanAdditional 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 new application is: _____

A. Patent Application No.(s):

10/343 480 which is a U.S.~~National Phase of~~
International Appl. No.
PCT/JP01/06562

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:Name: Joseph R. Robinson
DARBY & DARBY P.C.

Internal Address: Atty. Dkt.: 9853/0M532US0

Street Address:
P.O. Box 5257City:
New York

State: NY Zip: 10150-5257

6. Total number of applications and
patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account☐ Authorized to be charged to credit card
(Form 2038 enclosed)

8. Deposit account number:

04-0100

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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.*Louis J. DelJuidice (47,522)
Name of Person Signing

Signature

May 20, 2003
DateTotal number of pages including cover sheet, attachments, and documents: 4

Express Mail Label No.

Dated: 5/20/03

PATENT

REEL: 014234 FRAME: 0190

EV 349691242US

ASSIGNMENT BY INVENTORS (US ONLY)

THIS ASSIGNMENT, made this ____ day of _____, __, by Osamu YAMASHITA and Ken MAKITA, both citizens of Japan (hereinafter referred to as Assignors), residing at 5-44, Minamikasugaoka 5-chome, Ibaraki-shi, Osaka 567-0046, JAPAN; and 11-19, Aoba 2-chome, Shimamoto-cho, Mishima-gun, Osaka 618-0015, JAPAN, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in THIN-FILM RARE-EARTH PERMANENT MAGNET AND MANUFACTURING METHOD THEREOF, set forth in a Patent application for which an International Application designating the United States was filed on July 30, 2001, receiving No. PCT/JP01/06562.

WHEREAS, SUMITOMO SPECIAL METALS Co., Ltd., an organized corporation under and pursuant to the laws of Japan having its principal place of business at 7-19, Kitahama 4-chome, Chuou-ku, Osaka-shi, Osaka 541-0041, JAPAN (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee , its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, the same to be held and enjoyed by Assignee , for its own use and benefit and the use and benefit of its

successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee , its successors, legal representatives and assigns, that Assignor(s) will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee , its successors, legal representatives and assigns, whenever counsel of Assignee , or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Director of Patents and Trademarks to issue said Letters Patent of the United States to Assignee , as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee , its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals 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:

DARBY & DARBY P.C.

Paul F. Fehlner	35,135	Joseph B. Lerch	26,936	Peter C. Schechter	31,662
Paul Fields	20,298	Bert J. Lewen	19,407	Henry Sternberg	22,408
Melvin C. Garner	26,272	Scott G. Lindvall	40,325	Robert C. Sullivan	30,499
Adda C. Gogoris	29,714	S. Peter Ludwig	25,351	Michael J. Sweedler	19,937
Marc S. Gross	19,614	Joseph R. Robinson	33,448	Pierre R. Yanney	35,418
David Leason	36,195	Robert Schaffer	31,194		

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: *April 21, 2003* **Name:** *Osamu Yamashita*
Osamu YAMASHITA

Date: *April 16, 2003* **Name:** *Ken Makita*
Ken MAKITA