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U.S. Department of Commerce
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Attorney Docket No. 108384-00037
Date: November 30, 2001

To the Assistant Commissioner of Patents
Please record the attached original documents or copy thereof

1. Name of conveying party(ies)

Terunori ITO, Hidehiko YAMASAKI, Yoshitsugu UCHINO

Additional name(s) of conveying party(ies) attached?

Yes No

11.30.01

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

Name: Mitsui Mining & Smelting Co., Ltd.

Address: 11-1, Osaki 1-chome, Shinagawa-ku
Tokyo 141-8584, Japan

Additional name(s) & address(es) attached?

Yes No

3. Nature of conveyance:

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

Execution Date: October 9, 2001

4. Application number(s) or patent number(s): 09/980123

If this document is being filed together with a new application, the execution date of the application is: October 9, 2001

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Arent Fox Kintner Plotkin & Kahn PLLC

Street Address: 1050 Connecticut Avenue, N.W., Suite 400

Washington, D.C. 20036-5339

6. Total number of applications and patents involved:
One

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

- Included in attached check.
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8. Deposit account number: 01-2300
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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.

Robert B. Murray

November 30, 2001

Date

Name of Person Signing
Reg. No. 22,980

Signature

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

RBM/aam

Docket No. _____

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

[Insert
ASSIGNEE's
Name(s)
Address(es)]

Mitsui Mining & Smelting Co., Ltd. (Japanese corporation)
11-1, Osaki 1-chome, Shinagawa-ku, Tokyo 141-8584, JAPAN

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

[Title of
Invention]

**CERIUM-BASED ABRASIVE, STOCK MATERIAL THEREFOR,
AND METHODS OF PRODUCING THEM**

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

[*If the assignment
is being filed
after the
filing of the
application, this
section must be
completed]

*filed on _____, Serial No. _____

(Arent Fox Kintner Plotkin & Kahn is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

[Signature(s)
of Assignor(s)]

<u>Terunori Ito</u> (SIGNATURE)	<u>Terunori ITO</u> (TYPE NAME)	<u>9 October 2001</u> (DATE)
<u>Hidehiko Yamasaki</u> (SIGNATURE)	<u>Hidehiko YAMASAKI</u> (TYPE NAME)	<u>9 October 2001</u> (DATE)
<u>Yoshitsugu Uchino</u> (SIGNATURE)	<u>Yoshitsugu UCHINO</u> (TYPE NAME)	<u>9 October 2001</u> (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)

NO LEGALIZATION REQUIRED