

12-01-1998

Atty Docket No.: 834-173-0

FORM PTO-1595  
1-31-92

11-24-98



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

100910223

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

1. Name of conveying party(ies):

Hiroshi ICHIKAWA; Shogo INADA; Akira OSADA;  
Katsuhiko SATO; and Kazuhiro KAWANO

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

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

Name: Mitsubishi Materials Corporation

Address: 1-5-1 Ohtemachi, Chiyoda-ku, Tokyo,  
JAPAN

3. Nature of Conveyance:

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

Execution Date: 10/26; 10/22; 10/21; 10/21 and  
10/26/1998

Additional name(s) and 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)

09/145,616

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

OBLON, SPIVAK, McCLELLAND, MAIER &  
NEUSTADT, P.C.  
Attorneys at Law  
Fourth Floor  
1755 Jefferson Davis Highway  
Arlington, Virginia 22202

6. Total 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: 15-0030

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Paul E. Rauch, Ph.D.

Name of Person Signing

Signature

11/24/98

Date

Registration Number: 38,591

Total number of pages including this cover sheet: 3

11/27/1998 DMGUYEN 00000077 09145616

01 FC:581

40.00 OP

Do not detach this portion

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

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 9604 FRAME: 0277

# Assignment Of Application

WHEREAS, I (WE) Hiroshi ICHIKAWA; Shogo INADA; Akira OSADA;

Katsuhiko SATO; and Kazuhiro KAWANO, all of:

C/O TSUKUBA PLANT

Mitsubishi Materials Corporation

1511, Furumagi, Ishige-machi, Yuuki-gun,

Ibaraki-ken, JAPAN

INSERT NAMES  
AND RESIDENCE  
ADDRESSES OF  
THE INVENTORS:

\_\_\_\_\_, respectively,

INSERT TITLE  
OF INVENTION:

have invented certain new and useful improvements in: COATED CEMENTED CARBIDE ENDMILL

HAVING HARD-MATERIAL-COATED-LAYERS EXCELLENT IN ADHESION,

INSERT DATE IN-  
VENTORS SIGNED  
DECLARATION:

for which an application for Letters Patent was executed on 10/26; 10/22; 10/21;  
10/21 and 10/26/1998

(Application No. 09/145,616, filed SEPTEMBER 2, 1998), and

INSERT NAME  
AND ADDRESS OF  
COMPANY OR  
OTHER ASSIGNEE:

WHEREAS, Mitsubishi Materials Corporation

(hereinafter referred to as "ASSIGNEE") having a place of business at: 1-5-1 Ohtemachi,

Chiyoda-ku, Tokyo, JAPAN,

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: 26 / October / 1998 Hiroshi Ichikawa  
(Signature of Inventor) Hiroshi ICHIKAWA

Date: 22 / October / 1998 Shogo Inada  
(Signature of Inventor) Shogo INADA

Date: 21 / October / 1998 Akira Osada  
(Signature of Inventor) Akira OSADA

Date: 21 / October / 1998 Katsuhiko Sato  
(Signature of Inventor) Katsuhiko SATO

Date: 26 / October / 1998 Kazuhiro Kawano  
(Signature of Inventor) Kazuhiro KAWANO

Date: \_\_\_\_\_  
(Signature of Inventor)

Date: \_\_\_\_\_  
(Signature of Inventor)

Date: \_\_\_\_\_  
(Signature of Inventor)

**OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.**  
ATTORNEYS AT LAW  
FOURTH FLOOR  
1755 JEFFERSON DAVIS HIGHWAY  
ARLINGTON, VIRGINIA 22202