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1/16/02
U.S. DEPARTMENT OF COMMERCE
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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):
Takao YOKOSHIMA, Toshiyuki CHIBA, Shiro SUGIMURA
and Hideki KOBAYASHI

2. Name and address of receiving party(ies):
Name: (1) MITSUBISHI MATERIALS CORPORATION
(2) FEC CO., LTD.
Address: (1) 5-1, Otemachi 1-chome, Chiyoda-ku,
Tokyo, Japan
(2) 1414, Higashi, Utsugi-machi, Kanazawa-shi,
Ishikawa-ken, Japan

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

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: October 22, 2001

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)
09/984,146

B. Patent No.(s)

Additional numbers attached? Yes No

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



22850

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
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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.

Marvin J. Spivak

Name of Person Signing

Registration Number: 24,913

Joseph A. Scafetta, Jr.

Signature
Joseph A. Scafetta, Jr.
Registration No. 26,803

Jan. 16, 2002
Date

Total number of pages including this cover sheet: 3

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

PATENT
REEL: 012481 FRAME: 0293

Assignment Of Application

WHEREAS, I (WE) (1) Takao Yokoshima; (2) Toshiyuki Chiba;
(3) Shiro Sugimura; and (4) Hideki Kobayashi

INSERT NAMES
AND RESIDENCE
ADDRESSES OF
THE INVENTORS:

Address of (1) : c/o MITSUBISHI MATERIALS CORPORATION, MOBILE BUSINESS
DEVELOPMENT CENTER, 12-14, Koishikawa 1-chome, Bunkyo-ku, Tokyo, Japan;

Address of (2) : c/o MITSUBISHI MATERIALS CORPORATION, BUSINESS STRATEGY
DIVISION, 12-14, Koishikawa 1-chome, Bunkyo-ku, Tokyo, Japan; and

Address of (3)-(4): c/o FEC CO., LTD., 1414, Higashi, Utsugi-machi,
Kanazawa-shi, Ishikawa-ken, Japan

_____, respectively,
ANTENNA

INSERT TITLE
OF INVENTION:

have invented certain new and useful improvements in: _____

INSERT DATE IN-
VENTORS SIGNED
DECLARATION:

for which an application for Letters Patent was executed on October 22, 2001

(Application No. 09/984,146, filed October 29, 2001), and
(1) MITSUBISHI MATERIALS CORPORATION; and

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE:

WHEREAS, (2) FEC CO., LTD.

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____
(1) 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo, Japan; and
(2) 1414, Higashi, Utsugi-machi, Kanazawa-shi, Ishikawa-ken, 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: October 22, 2001 Takao Yokoshima Takao Yokoshima
(Signature of Inventor)

Date: October 22, 2001 Toshiyuki Chiba Toshiyuki Chiba
(Signature of Inventor)

Date: October 22, 2001 Shiro Sugimura Shiro Sugimura
(Signature of Inventor)

Date: October 22, 2001 Hideki Kobayashi Hideki Kobayashi
(Signature of Inventor)

Date: _____
(Signature of Inventor)

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