

FORM PTO-1595 (modified)

(Rev 6-93)

RE

04-29-2003



102433553

U.S. DEPARTMENT OF COMMERCE

SHEET

Patent and Trademark Office

To the Commissioner of Patents and Trademarks: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

TOSHIBA TEC KABUSHIKI KAISHA
1-1, Kanda Nishiki-cho
Chiyoda-ku, Tokyo 101-8442 Japan

4-24-03

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

KABUSHIKI KAISHA TOSHIBA
1-1, Shibaura 1-chome
Minato-ku, Tokyo 105-8001 Japan

and

TOSHIBA TEC KABUSHIKI KAISHA
1-1, Kanda Nishiki-cho
Chiyoda-ku, Tokyo 101-8442 Japan



Additional conveying party(ies) NO

3. Nature of conveyance:

ASSIGNMENT (One-Half Interest)

Execution Date:

April 23, 2003

*** Both Parties Are Now Joint Assignees. ***

Additional name(s) & address(es) attached? NO

4. Application number(s) or patent number(s):

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

A. Patent Application Number(s):

09/976,147	10/036,458	09/953,617
09/521,661	09/934,599	10/032,614
09/955,089	09/998,414	09/975,975
10/050,936	10/024,384	10/024,529
09/964,652	10/046,228	09/660,458
09/984,787	09/725,944	10/198,132
09/966,096	09/991,974	09/506,328

B. Patent Number(s):

Additional numbers attached? NO

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

FOLEY & LARDNER
Washington Harbour
3000 K Street, N.W., Suite 500
Washington, D.C. 20007-5143

6. Total number of applications/patents involved: 21

7. Total fee (37 C.F.R. § 3.41): \$840.00

Check Enclosed

Charge to deposit account

8. Deposit account number: 19-0741

04/28/2003 EDOOPER 00000000 09976147

01 FC:0021

840.00 00

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. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Pavan K. Agarwal
Reg. No. 40,888

April 24, 2003

Name of person signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 3

PATENT ASSIGNMENT

WHEREAS TOSHIBA TEC KABUSHIKI KAISHA, of 1-1, Kanda Nishiki-cho, Chiyoda-ku, Tokyo, 101-8442, Japan, (hereinafter "Assignor") is the owner of the United States Patent Applications listed on ATTACHMENT A, and the inventions set forth therein, as shown by the records of the United States Patent and Trademark Office (by virtue of Assignments being duly recorded in the file of each of the Patent Applications).

WHEREAS KABUSHIKI KAISHA TOSHIBA, of 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan, (hereinafter "Co-Assignee") is desirous of acquiring part of the right, title and interest in and to said inventions for the United States of America, and in and to said United States Patent Applications.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Co-Assignee, Assignor has sold, assigned, transferred and set over, and by these presence hereby sells, assigns, transfers and sets over to Co-Assignee a one-half ownership right, title and interest in and to said inventions for the United States of America, and in and to said applications for Letters Patent listed above, including any and all divisional, continuation, continuation-in-part, reissues or extensions thereof, to be jointly held and enjoyed by Co-Assignee and Assignor for their use as the same would have been held and enjoyed by Assignor alone had this assignment not been made; the Commissioner of Patents and Trademarks of the United States of America is hereby authorized to transfer the portion of the right, title and interest indicated to said applications to said Co-Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the Assignor, but also that such assigned rights are not encumbered by any grant, license, or other right theretofore given; Assignor hereby undertakes to execute and deliver to Co-Assignee upon request all lawful documents which may be requested by Co-Assignee, and to furnish Co-Assignee with all facts relating to said invention as may be requested.

The undersigned hereby grants the firm of FOLEY & LARDNER, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

TOSHIBA TEC KABUSHIKI KAISHA

Date: April 23, 2003

By: Toshio Hokimoto

Name: Toshio Hokimoto

Title: Senior Manager

Date: _____

Witness: _____

Date: _____

Witness: _____

ATTACHMENT A

PATENT APPLICATION SERIAL NO.

09/976,147
09/521,661
09/955,089
10/050,936
09/964,652
09/984,787
09/966,096
10/036,458
09/934,599
09/998,414
10/024,384
10/046,228
09/725,944
09/991,974
09/953,617
10/032,614
09/975,975
10/024,529
09/660,458
10/198,132
09/506,328