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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):

Hideo KAWANO and Motoyuki KITABATA

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

3. Nature of Conveyance:

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

Execution Date: August 27, 30, 2001

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

Name: KABUSHIKI KAISHA TOSHIBA

Address: 1-1, Shibaura 1-chome,
Minato-ku, Tokyo, Japan

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)

09/897,955

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

Signature

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Dec 20, 2001
Date

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PATENT
REEL: 012396 FRAME: 0271

Assignment Of Application

Page 1 of 2

WHEREAS, I (WE) Hideo KAWANO and Motoyuki KITABATA
 residing both at c/o Intellectual Property Division,
 Toshiba Corporation, 1-1, Shibaura 1-chome, Minato-ku,
 Tokyo, Japan

INSERT NAMES
 AND RESIDENCE
 ADDRESSES OF
 THE INVENTORS:

_____, respectively,
 have invented certain new and useful improvements in: MATRIX ARRAY SUBSTRATE

INSERT TITLE
 OF INVENTION:

for which an application for Letters Patent was executed on Aug. 27, 2001 and Aug. 30, 2001
 (Application No. 09/897,955, filed on July 5, 2001), and

INSERT DATE IN-
 VENTORS SIGNED
 DECLARATION:

WHEREAS, Kabushiki Kaisha Toshiba
 (hereinafter referred to as "ASSIGNEE") having a place of business at: 1-1, Shibaura 1-chome,
Minato-ku, Tokyo, Japan

INSERT NAME
 AND ADDRESS OF
 COMPANY OR
 OTHER ASSIGNEE:

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, continua-
 tions, 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: Aug. 27, 2001

Hideo Kawano
(Signature of Inventor) Hideo KAWANO

Date: Aug. 30, 2001

Motoyuki Kitabata
(Signature of Inventor) Motoyuki KITABATA

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

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