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PAT



Attorney Docket No.: 89165.0009

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To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

7-22-03

Yoshinori TAKANO signed 4/30/03  
Yasuhiko HONDA signed 4/17/03  
Toru TANZAWA signed 4/18/03  
Masao KURIYAMA signed 4/17/03

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

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

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

3. Nature of conveyance:

Assignment

Execution Date: April 17, 18 and 30, 2003

Additional name(s) & 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) 10/412,646

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Anthony J. Orler, Esq.  
HOGAN & HARTSON L.L.P.  
500 South Grand Avenue, Suite 1900  
Los Angeles, CA 90071

6. Total number of 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:

50-1314

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Anthony J. Orler

Date: July 17, 2003

OMB No. 0651-0011 (exp. 4/94)

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

Mail Stop Assignment Recordation Services  
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P.O. Box 1450  
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ASSIGNMENT

- (1-8) Name(s) of Inventor(s)
  - (1) Yoshinori TAKANO (5)
  - (2) Yasuhiko HONDA (6)
  - (3) Toru TANZAWA (7)
  - (4) Masao KURIYAMA (8)
- In consideration of the good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to
- (9) Name of Assignee (9) KABUSHIKI KAISHA TOSHIBA
- (10) State of Incorporation of Assignee (10) Tokyo, JAPAN
- (11) Address of Assignee (11) of 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN (hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as
- (12) Identification of Invention, such as Title, Case Number or Foreign Application Number (12) NONVOLATILE SEMICONDUCTOR MEMORY DEVICE for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.
- (13) Date(s) of Signing of Declaration (13) on

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

6) The undersigned hereby appoints the persons associated with Customer Number:

000026021



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PATENT TRADEMARK OFFICE

the power to insert on this assignment any further identification 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: April 30, 2003 Signature of Inventor 1 Yoshinori Takano

Date: April 17 2003 Signature of Inventor 2 Yasuhiko Honda

Date: Apr. 18, 2003 Signature of Inventor 3 Toru Tanzawa

Date: April 17, 2003 Signature of Inventor 4 Masao Kuriyama

Date: \_\_\_\_\_ Signature of Inventor 5 \_\_\_\_\_

Date: \_\_\_\_\_ Signature of Inventor 6 \_\_\_\_\_