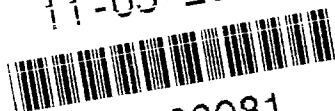


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(Rev. 6-93)

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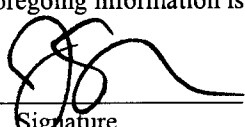
DEPARTMENT OF COMMERCE
Patent and Trademark Office
PT

Attorney Docket No.: 041514-5303

To the Commissioner for Patents

Please record the attached original documents or copy thereof.

MAIL STOP ASSIGNMENT RECORDATION SERVICES

1. Name of conveying party(ies): Takahisa TANABE 10-31-03 Additional names of conveying party(ies) attached? ☐ Yes ☒ No		2. Name and address of receiving party(ies): Name: Pioneer Corporation Internal Address: Street Address: 4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan City: State: Zip: Additional name(s) & address(es) attached? ☐ Yes ☒ No	
3. Nature of conveyance: ☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: October 23, 2003			
4. New Application number(s) or patent number(s): 10/616,501 If this document is being filed together with a new application the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached: ☐ Yes ☒ No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: John G. Smith Internal Address: Morgan, Lewis & Bockius LLP Customer No. 09629 Street Address: 1111 Pennsylvania Avenue, N.W. City: Washington State: D.C. Zip: 20004		6. Total number of applications and patents involved: 1 7. Total fee (37 C.F.R. §3.41): \$40.00 ☐ Enclosed ☒ Authorized to be charged to Deposit Account 50-0310 8. Deposit Account No. 50-0310 (Attach duplicate page if paying by deposit account)	
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. <u>John G. Smith Reg. No. 33,818</u> Name of Person Signing  Signature October 31, 2003 Date Total number of pages including cover sheet, attachments and documents: 3			

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PATENT
REEL: 014650 FRAME: 0343

ASSIGNMENT

In consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree to assign, and hereby do assign, transfer, and set over to:

Pioneer Corporation

having the address:

4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan

(hereinafter designated as the "ASSIGNEE") the entire right, title, and interest for the United States and all foreign countries (including protection in foreign countries via the Patent Cooperation Treaty), in the invention, and all applications for patent and any Letters Patent which may be granted therefor, the application being known by the Title:

ORGANIC THIN-FILM SWITCHING MEMORY DEVICE AND
MEMORY DEVICE

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on July 10, 2003,

serial No. 10/616,501

1. The undersigned agree to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

2. The undersigned agree 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 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 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 and request the commissioner of Patents in the United States and the appropriate national or regional authority in each foreign country to issue any and all Letters Patents 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 they have full right to convey the entire interest herein assigned, and that they have not executed and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned names.

The undersigned hereby authorize the firm of

MORGAN LEWIS at the address of

1111 Pennsylvania Avenue, N.W., Washington, D.C. 20004, U.S.A.

to insert hereon any further identification necessary or desirable for recordation of this document.

Oct. 23, 2003
Date

Takahisa Tanabe
Typed Name: Takahisa TANABE