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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Kiyofumi CHIKUMA</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): PIONEER CORPORATION No. 4-1 Meguro 1-chome, Meguro-ku Tokyo-to, Japan</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: August 5, 2004</p>			
<p>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:</p> <table border="0"> <tr> <td data-bbox="100 835 779 913"> <p>A. Patent Application No.(s) 10/901,303</p> </td> <td data-bbox="779 835 1549 913"> <p>B. Patent No.(s) Unknown</p> </td> </tr> </table> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		<p>A. Patent Application No.(s) 10/901,303</p>	<p>B. Patent No.(s) Unknown</p>
<p>A. Patent Application No.(s) 10/901,303</p>	<p>B. Patent No.(s) Unknown</p>		
<p>5. Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON OFFICE 23373 CUSTOMER NUMBER</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed. <input type="checkbox"/> Authorized to be charged to Deposit Account No. 19-4880. The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.</p> <p>8. Deposit Account Number: 19-4880 (Attach duplicate copy of this page if paying by deposit account)</p>		

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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.

Darryl Mexic Reg. No. 23,063 November 1, 2004
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Assignment

Whereas, I/We, Kiyofumi CHIKUMA of Tsurugashima-shi, Saitama-ken, Japan

hereinafter called assignor(s), have invented certain improvements in INFORMATION RECORDING MEDIUM, INFORMATION RECORDING APPARATUS, INFORMATION RECORDING METHOD, INFORMATION PLAYBACK APPARATUS, INFORMATION PLAYBACK METHOD, RECORDING PROGRAM RECORDING MEDIUM, AND PLAYBACK PROGRAM RECORDING MEDIUM

and executed an application for Letters Patent of the United States of America therefor on _____; and

Whereas, PIONEER CORPORATION of No. 4-1 Meguro 1-chome, Meguro-ku Tokyo-to, Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. § 119, and I/we request the Director – U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____, filed _____) the filing date and application number of said application when known.

Date: 05/08/2004 Kiyofumi Chikuma
s/
Date: _____
s/
Date: _____
s/
Date: _____
s/
Date: _____
s/

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)