

PATENT ASSIGNMENT

Electronic Version v08

Stylesheet Version v02

SUBMISSION TYPE:	NEW ASSIGNMENT	APPLICATION NUMBER 10/711944															
NATURE OF CONVEYANCE:	ASSIGNMENT OF ASSIGNOR'S INTEREST																
CONVEYING PARTY DATA																	
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Takeshi KADOWAKI</td><td>2004-09-13</td></tr><tr><td>Katsuyuki KOBAYASHI</td><td>2004-10-01</td></tr><tr><td>Youichi KONNO</td><td>2004-09-13</td></tr></tbody></table>						Name	Execution Date	Takeshi KADOWAKI	2004-09-13	Katsuyuki KOBAYASHI	2004-10-01	Youichi KONNO	2004-09-13				
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<table border="1"><thead><tr><th>Name</th><th>Street Address</th><th>Internal Address</th><th>City</th><th>State/Country</th><th>Postal Code</th></tr></thead><tbody><tr><td>PIONEER CORPORATION</td><td>4-1, Meguro 1-chome, Meguro-ku,</td><td></td><td>Tokyo</td><td>JAPAN</td><td>153-8654</td></tr></tbody></table>						Name	Street Address	Internal Address	City	State/Country	Postal Code	PIONEER CORPORATION	4-1, Meguro 1-chome, Meguro-ku,		Tokyo	JAPAN	153-8654
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PIONEER CORPORATION	4-1, Meguro 1-chome, Meguro-ku,		Tokyo	JAPAN	153-8654												
CORRESPONDENCE DATA																	
FAX NUMBER: 2028870357 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO. CUSTOMER NUMBER: 023850																	
NAME OF PERSON SIGNING:	Mel R. Quintos																
DATE SIGNED:	2004-10-14																
Total Attachments: 1 source=040527asn.tif																	

CH \$40.00 012340 10711944

U.S. ASSIGNMENT(Insert ASSIGNEE's
Name(s) Address(es))

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by
PIONEER CORPORATION, 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled:

(Title of Invention)

DISK DEVICE(*If the assignment is
being filed after the
filing of the
application, this
section must be
completed)

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

* filed on _____, Serial No. _____.

(Armstrong, Kratz, Quintos, Hanson & Brooks, LLP is hereby authorized to insert the serial code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

TAKESHI KADOWAKI
(Signature)

Takeshi KADOWAKI
(Type Name)

SEP. 13, 2004
(Date)

Katsuyuki Kobayashi
(Signature)

Katsuyuki KOBAYASHI
(Type Name)

Oct. 01, 2004
(Date)

Youichi Konno
(Signature)

Youichi KONNO
(Type Name)

SEP. 13, 2004
(Date)

(Signature)

(Type Name)

(Date)

(Signature)

(Type Name)

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(Type Name)

(Date)

NO LEGALIZATION REQUIRED

PATENT

RECORDED: 10/14/2004

REEL: 015243 FRAME: 0359