

07-31-2001



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To the Honorable Commissioner of Patent

Attached original documents or copy thereof.

1. Name of conveying party(ies)
 1.) Tomo Watanabe
 2.) Koichi Nagaki
 3.) Michihiro Kaneko
 4.) Keiichi Yamauchi

Additional names(s) of conveying party(ies) Yes No



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

Name: Pioneer Corporation
Address: 4-1, Meguro 1-chome, Meguro-ku

7-19-01

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

City: Tokyo State/Prov.:

Country: Japan ZIP:

Execution Date: (1 and 2) June 15, 2001;
(3) June 18, 2001;
(4) June 20, 2001

Additional name(s) & address(es) Yes No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.	Filing date
09/839,540	April 23, 2001

B. Patent No.(s)

Additional numbers

Yes No

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

Name: Sean M. McGinn, Esq.
 Registration No. 34,386
 Address: McGinn & Gibb, PLLC
 8321 Old Courthouse Rd.
 Suite 200
 City: Vienna State/Prov.: VA
 Country: 22182-3817 ZIP:

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

50-0481

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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.

Sean M. McGinn, Esq.
Name of Person Signing

Signature

July 19, 2001

Date

Total number of pages including cover sheet, attachments, and

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:

DISC DRIVE APPARATUS

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

filed on April 23, 2001,

serial No. 09/839,540

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

McGinn & Gibb, PLLC, at the address of
8321 Old Courthouse Road, Suite 200, Vienna, Virginia 22182-3817, U.S.A.

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

Jun 15 2001
Date

Tomo Watanabe
Typed Name: Tomo WATANABE

Jun. 15, 2001
Date

Koichi Nagaki
Typed Name: Koichi NAGAKI

Jun. 18. 2001
Date

Michihiro Kaneko
Typed Name: Michihiro KANEKO

Jun. 20. 2001
Date

Keiichi Yamauchi
Typed Name: Keiichi YAMAUCHI