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Attorney Docket
No.: 8861-379US
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To the Assistant Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Toshiharu KOSHINO
Toshiki YAMAMURA
Yuji NAGAISHI
Tsukasa YOSHIURA
Shinichiro TAKIGAWA

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

Matsushita Electric Industrial Co., Ltd.
1006, Oaza-Kadoma, Kadoma-shi,
Osaka-fu, 571-8501
JAPAN

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

Execution Date: **March 9, 2000**

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): 09/513/093

B. Patent No.(s):

Additional numbers attached? Yes No

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

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6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) Cal. 1 x \$40.00 = \$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: 50-1017 (Billing No.: 208861.0379)

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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.

LESLIE L. KASTEN, JR.
Name of Person Signing

Signature

May 25, 2000
Date

Total number of pages including cover sheet, attachments and document: [5]

ASSIGNMENT 譲渡証

下記名称の新規でかつ有用性ある改良が後記の署名者によってなされ、

WHEREAS, new and useful improvements have been made by the undersigned in
DISK CONTROL APPARATUS AND DISK APPARATUS USING THE SAME

(発明の名称)

それらの改良について米国特許商標庁への特許出願書が作成され、後記署名者による署名の横の該当する個所に記載された日付で宣言書が作成された。その特許出願は、下記の番号により識別されるものである。

and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the dates indicated below in the appropriate spaces under the signatures of the undersigned, which application is further identified as:

PRIOR FOREIGN APPLICATION(S)

(Day/Month/Year Filed) (出願年月日)

26 February, 1999

9 February, 2000

外国での先行する出願
(Number) (番号) (Country) (国名)

Pat.Hei 11-051711 Japan

Pat.2000-032377 Japan

日本国

WHEREAS, Matsushita Electric Industrial Co., Ltd.,

a corporation of Japan of 1006, Oaza-Kadoma, Kadoma-shi, Osaka-fu, 571-8501 Japan

_____の法人である _____

hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

(本譲渡証中、以下「譲受人」と称する)は、上記改良、発明及びそれらについての特許権に関する全世界的な権利、権原及び利益を取得することを希望する。

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past

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infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment; and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the patent attorneys whom I appoint as my attorneys to prosecute the patent application in the Declaration and Power of Attorney For Patent Application executed on the even date 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.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

唯一または第一発明者名	Full name of sole or first inventor Toshiharu KOSHINO
発明者の署名 日付	Inventor's signature Date <i>Toshiharu Koshino</i> Mar. 9, 2000
住所	Residence Moriguchi City, Japan
国籍	Citizenship Japanese
郵便の宛先	Post Office Address 7-23, Hashiba Higashino-cho 3-chome, Moriguchi City, 570-0031 Japan

第二共同発明者	Full name of second joint inventor, if any Toshiki YAMAMURA
第二共同発明者の署名 日付	Second inventor's signature Date <i>Toshiki Yamamura</i> Mar. 9, 2000
住所	Residence Suita City, Japan
国籍	Citizenship Japanese
郵便の宛先	Post Office Address 11-31-602, Nagano-nishi, Suita City, 565-0817 Japan

第三共同発明者	Full name of third joint inventor, if any Yuji NAGAISHI
第三共同発明者の署名 日付	Third inventor's signature Date <i>永野 裕二</i> Mar. 9, 2000
住所	Residence Daito City, Japan
国籍	Citizenship Japanese
郵便の宛先	Post Office Address 15-1, Midorigaoka 2-chome, Daito City, 574-0073 Japan

(第四またはそれ以降の共同発明者に対しても同様な情報および署名を提供すること。)

(Supply similar information and signature for fourth and subsequent joint inventors.)

第四共同発明者	Full name of fourth joint inventor, if any Tsukasa YOSHIURA
第四共同発明者の署名 日付	Fourth inventor's signature Date <i>Tsukasa Yoshiura</i> Mar. 9, 2000
住所	Residence Hirakata City, Japan
国籍	Citizenship Japanese
郵便の宛先	Post Office Address 36-25, Kuzuha Mendori-cho 1-chome, Hirakata City, 573-1113 Japan

第五共同発明者	Full name of fifth joint inventor, if any Shinichiro TAKIGAWA
第五共同発明者の署名 日付	Fifth inventor's signature Date <i>Shinichiro Takigawa</i> Mar. 9, 2000
住所	Residence Kyotanabe City, Japan
国籍	Citizenship Japanese
郵便の宛先	Post Office Address 42-1-1-403, Kusauchi Hanshowari, Kyotanabe City, 610-0311 Japan

第六共同発明者	Full name of sixth joint inventor, if any
第六共同発明者の署名 日付	Sixth inventor's signature Date
住所	Residence
国籍	Citizenship
郵便の宛先	Post Office Address

(第七またはそれ以降の共同発明者に対しても同様な情報および署名
を提供すること。)

(Supply similar information and signature for seventh and subsequent joint
inventors.)