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Attorney Docket No. P186-8035 Date: November 24, 1998

| | oner of Patents and Trademarks: | | |
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| Name of conveying party(ies) Masashi SHIRAISHI; Masanori SAKAI; Tsuyoshi UMEHARA; | 2. Name and address of receiving party(ies): | | |
| Haruyuki MORITA; and Ken-ichi TAKANO Additional name(s) of conveying party(ies) attached? _ Yes xx No | Address: 13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo, Japan | | |
| Nature of conveyance: XX Assignment _ Merger _ Security Agreement _ Change of Name _ Other Execution Date: November 10, 1998 | Additional name(s) & address(es) attached? _ Yes xx No | | |
| 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the exe A. Patent Application No.(s) New Application | ecution date of the application is: November 10, 1998 B. Patent No.(s) | | |
| | | | |
| Additional numbers attached | d? _ Yes <u>xx</u> No | | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: One | | |
| Name and address of party to whom correspondence concerning | 6. Total number of applications and patents involved: | | |
| Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: One | | |
| Name and address of party to whom correspondence concerning document should be mailed: Name: Nikaido, Marmelstein, Murray & Oram LLP | 6. Total number of applications and patents involved: One 7. Total fee (37 CFR 3.41) | | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Nikaido, Marmelstein, Murray & Oram LLP Street Address: Metropolitan Square, 655 Fifteenth Street, N.W. | 6. Total number of applications and patents involved: One 7. Total fee (37 CFR 3.41) | | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Nikaido, Marmelstein, Murray & Oram LLP Street Address: Metropolitan Square, 655 Fifteenth Street, N.W. Suite 330 - G Street Lobby, Washington, D.C. 20005-5701 | 6. Total number of applications and patents involved: One 7. Total fee (37 CFR 3.41)\$ 40.00 XX Included in attached Check #_/\$2007 XX Any additional fees are authorized to be charged to Deposit Account 8. Deposit account number: 14-1060 (Attach duplicate copy of this page if paying by | | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Nikaido, Marmelstein, Murray & Oram LLP Street Address: Metropolitan Square, 655 Fifteenth Street, N.W. Suite 330 - G Street Lobby, Washington, D.C. 20005-5701 | 6. Total number of applications and patents involved: One 7. Total fee (37 CFR 3.41)\$ 40.00 XX Included in attached Check #_/\$2007 XX Any additional fees are authorized to be charged to Deposit Account 8. Deposit account number: 14-1060 (Attach duplicate copy of this page if paying by deposit account) SE THIS SPACE | | |

| Docket No |
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U.S. ASSIGNMENT

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 TDK CORPORATION of 13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo, 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 MAGNETIC HEAD APPARATUS WITH HEAD IC CHIP for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below: _____, Serial No. _____ *filed on ___ (Nikaido, Marmelstein, Murray & Oram 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, division, renewal, 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 application and any continuing, 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, division, 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.

[Signature(s)]

[Insert

[Title of Invention]

after the

filing of the application, this

completed]

section must be

[*If the assignment is being filed

ASSIGNEE's Name(s) Address(es)]

| | - | - | |
|-------------------|-------------------|-------------------|--|
| Masashi Shirajahi | Masashi SHIRAISHI | November 10, 1998 | |
| (SIGNATURE) | (TYPE NAME) | (DATE) | |
| Marwow Sahar | Masanori SAKAI | November 10, 1998 | |
| (SIGNATURE) | (TYPE NAME) | (DATE) | |
| Tsuuski ilmehara | Tsuyoshi UMEHARA | November 10, 1998 | |
| (SIGNATURE) | (TYPE NAME) | (DATE) | |
| Hamyuki Morita. | Haruyuki MORITA | November 10, 1998 | |
| (SIGNATURE) | (TYPE NAME) | (DATE) | |
| Ken-ichi Talcano | Ken-ichi TAKANO | November 10,1998 | |
| (SIGNATURE) | (TYPE NAME) | (DATE) | |
| (SIGNATURE) | (TYPE NAME) | (DATE) | |
| (SIGNATURE) | (TYPE NAME) | (DATE) | |

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

NO LEGALIZATION REQUIRED

PATENT REEL: 9628 FRAME: 0946

RECORDED: 11/24/1998