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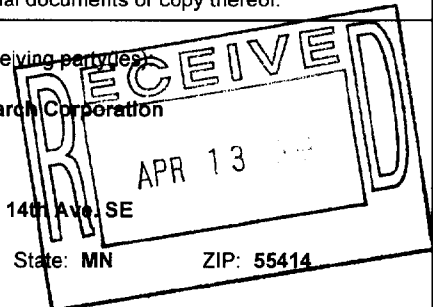
U.S. DEPARTMENT OF COMMERCE
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OMB No. 0651-0011 (exp. 4/94)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.



1. Name of conveying party(ies):

Matthew P. Dugas

Additional name(s) of conveying party(ies) attached? Yes No

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

Name: Advanced Research Corporation

Internal Address:

Street Address: 815 - 14th Ave. SE

City: Minneapolis

State: MN

ZIP: 55414

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date(s): 2/23/99

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).

09/255,762

B. Patent No(s).

Additional numbers attached? Yes No

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

Name: Daniel G. Chapik

Internal Address: 3400 Plaza VII Building

Street Address: 45 South Seventh Street

City: Minneapolis State: MN ZIP: 55402

Our File No.: 17254-301

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41).....40.00.

- Enclosed
- Authorized to be charged to deposit account
- Authorized to charge any underpayment or credit any overpayment to deposit account.

8. Deposit account number:

15-0627

(Attach duplicate copy of this page if paying by deposit account.)

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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.

Daniel G. Chapik

Name of Person Signing

D. G. Chapik
Signature

4/8/99
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
U.S. Patent and Trademark Office, Office of Public Records, Crystal Gateway 4, Room 335
Washington, D.C. 20231

ASSIGNMENT

WHEREAS, I, Matthew P. Dugas, of 2324 Valentine Avenue, St. Paul, Minnesota 55108, have invented certain new and useful improvements in a METHOD FOR MAKING A PATTERNED MAGNETIC RECORDING HEAD for which an application has been made for Letters Patent of the United States, said application having been identified in the United States Patent and Trademark Office by Serial No. 09/255,762, filed February 23, 1999; and

WHEREAS, Advanced Research Corporation, a corporation organized and existing under the laws of the State of Minnesota, and having its principal offices at 815 Fourteenth Avenue SE, Minneapolis, Minnesota 55414, is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of one Dollar (\$1.00) and other good and valuable considerations to me in hand paid by said Advanced Research Corporation, the receipt of which is hereby acknowledged, I have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said Advanced Research Corporation, its successors and assigns, my entire right, title and interest in and to said invention, said application and the Letters Patent, both foreign and domestic, that may or shall issue, including all of my rights under the International Convention, and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee in accordance herewith.

I hereby authorize said assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of the International Convention.

Upon said consideration, I do hereby covenant and agree with the said assignee, its successors and assigns, that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I or my executors or administrators will at any time upon request, without further or additional consideration, but at the expense of the said assignee, its successors and assigns, execute such additional writings and do such additional acts as said assignee, its successors and assigns, may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuation, reissued or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights, occurring as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

In witness whereof, I have hereunto set my hand and affixed my seal this 23rd day of February, 1999.

Matthew P. Dugas
Matthew P. Dugas
2-23-99

STATE OF MINNESOTA)
) ss.
COUNTY OF HENNEPIN)

On this 23rd day of February, 1999, before me personally appeared Matthew P. Dugas, to me known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

Scott Conroyea
Notary Public

