

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Matthew P. Dugas	01/21/2004
Jeffrey A. Wallhoff	01/21/2004
RECEIVING PARTY DATA	
Name:	Advanced Research Corporation
Street Address:	4459 White Bear Parkway
City:	White Bear Lake
State/Country:	MINNESOTA
Postal Code:	55110
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12463864
CORRESPONDENCE DATA	
Fax Number:	(612)340-8856
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	612-340-2600
Email:	coffey.krista@dorsey.com
Correspondent Name:	DORSEY & WHITNEY LLP INTELLECTUAL PROPER
Address Line 1:	SUITE 1500
Address Line 2:	50 SOUTH SIXTH STREET
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402-1498
ATTORNEY DOCKET NUMBER:	14445.03
NAME OF SUBMITTER:	Krista Coffey
<p>Total Attachments: 5</p> <p>source=11778US3assign#page1.tif</p> <p>source=11778US3assign#page2.tif</p>	

CH \$40.00 12463864

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REEL: 023233 FRAME: 0985

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UNITED STATES PATENT AND TRADEMARK OFFICE *Advanced Research 14445.61*
AX/FLE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUG 09 2004

AUGUST 02, 2004

PTAS



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DORSEY & WHITNEY LLP
DEVAN V. PADMANABHAN
INTELLECTUAL PROPERTY DEPARTMENT
SUITE 1500, 50 SOUTH SIXTH STREET
MINNEAPOLIS, MN 55402-1498

UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/30/2004

REEL/FRAME: 014928/0261
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 14445.01

ASSIGNOR:

DUGAS, MATTHEW P.

DOC DATE: 01/21/2004

ASSIGNOR:

WALLHOFF, JEFFREY A.

DOC DATE: 01/21/2004

ASSIGNEE:

ADVANCED RESEARCH CORPORATION
815 14TH AVENUE SE
MINNEAPOLIS, MINNESOTA 55414

SERIAL NUMBER: 10600561

FILING DATE: 06/19/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: OPTICAL PATH FOR A THERMAL-ASSISTED MAGNETIC RECORDING HEAD

014928/0261 PAGE 2

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

02-03-2004

Docket No. 14445.01



FORM PTO 1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

102660298
PATENTS ON LINE

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name(s) of conveying party(ies): 1.30.04
Matthew P. Dugas, Jeffrey A. Wallhoff

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: January 21, 2004

2. Name and address of receiving party(ies)

Name: Advanced Research Corporation

Internal Address: _____

Street Address: 815 14th Avenue SE

City: Minneapolis State: MN ZIP: 55414

Country: US

Additional name(s) & address(es) attached ☐ Yes ☒ No

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) 10/600,561

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Devan V. Padmanabhan

Internal Address: Customer Number 25763

Dorsey & Whitney LLP

Intellectual Property Department

Street Address: Suite 1500, 50 South Sixth Street

City: Minneapolis State: MN ZIP 55402-1498

6. Total Number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)... 1 x \$40. 40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit Account number: 04-1420

(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.

Devan V. Padmanabhan

Name of Person Signing

Reg. No. 38,262

Devan V. Padmanabhan
Signature

Jan. 26, 2004
Date

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

Mail documents to be recorded with required cover sheet information to:

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PATENT
REEL: 023233 FRAME: 0989

ASSIGNMENT

[Entity]

Attorney Docket No.: 14445.01

Page 1 of 2

First Named Inventor: Matthew P. Dugas

Title: Optical Path for a Thermal-Assisted Magnetic Recording Head

WHEREAS, I, Matthew P. Dugas, residing in St. Paul, Minnesota 55108, and I, Jeffrey A. Wallhoff, residing in New Brighton, Minnesota 55112, have invented certain new and useful improvements as described in an application entitled **Optical Path for a Thermal-Assisted Magnetic Recording Head** for Letters Patent of the United States, the application being identified in the United States Patent and Trademark Office by Application No. 10/600,561, filed June 19, 2003; and

WHEREAS, Advanced Research Corporation, a corporation organized and existing under the laws of the State of Minnesota, and having offices at 815 14th Avenue SE, Minneapolis, MN 55414, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title, and interest in and to the invention, the above-identified patent application, corresponding domestic applications (including divisionals, continuations, and continuations-in-part), corresponding foreign applications, all Letters Patent or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and I authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

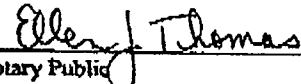

Matthew P. Dugas

CERTIFICATE OF ACKNOWLEDGMENT

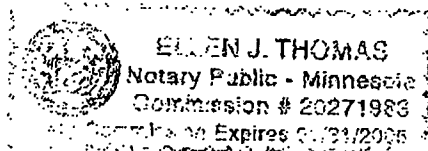
STATE OF Minnesota)
: SS.

COUNTY OF Hennepin)

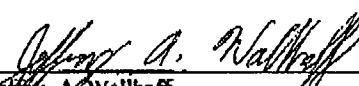
Subscribed and sworn to before me, a Notary Public, this 21st day of January, 2004.


Notary Public

(SEAL)



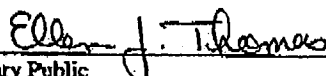
ASSIGNMENT <small>(Entry)</small>	Attorney Docket No.: 14445.01	Page 2 of 2
	First Named Inventor: Matthew P. Dugas	
	Title: Optical Path for a Thermal-Assisted Magnetic Recording Head	


 Jeffrey A. Wallhoff

CERTIFICATE OF ACKNOWLEDGMENT

STATE OF Minnesota)
) SS.
 COUNTY OF Hennepin)

Subscribed and sworn to before me, a Notary Public, this 21st day of January, 2004.


 Notary Public

(SEAL)

