

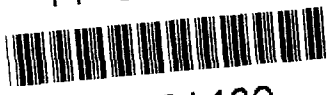


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11-30-2004

Docket No. 34004/US

FORM ~~PTO 1505~~
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)



102891480

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.

11/23/04

1. Name(s) of conveying party(ies):
Matthew P. Dugas, Theodore A. Schwarz
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: 4459 White Bear Parkway
City: White Bear State: MN ZIP: 55110
Country: US
Additional name(s) & address(es) attached Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: November 17, 2004

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) 10/768,719

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) . . . x \$40. \$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit Account number: 04-1420
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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.
Alicia G. Mills *Alicia G. Mills* November 18, 2004
Name of Person Signing Signature Date
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Total number of pages including cover sheet, attachments, and document: 3

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PATENT
REEL: 016015 FRAME: 0976

ASSIGNMENT (Entity)	Attorney Docket No.: 34004/US	Page 1 of 2
	First Named Inventor: Matthew P. Dugas	
	Title: Apparatuses and Methods for Pre-Erasing During Manufacture of Magnetic Tape	

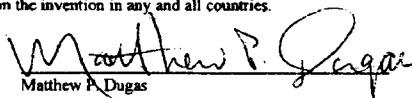
WHEREAS, I, Matthew P. Dugas, residing in St. Paul, Minnesota 55108, and I, Theodore A. Schwarz, residing in Woodbury, Minnesota 55125, have invented certain new and useful improvements as described in an application entitled **Apparatuses and Methods for Pre-Erasing During Manufacture of Magnetic Tape for Letters Patent of the United States**, the application having been executed on even date herewith and/or being identified in the United States Patent and Trademark Office by Application No. 10/768,719 filed January 30, 2004; and

WHEREAS, Advanced Research Corporation, a corporation organized and existing under the laws of the State of Minnesota, and having offices at 4459 White Bear Parkway, White Bear, Minnesota 55110 ("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

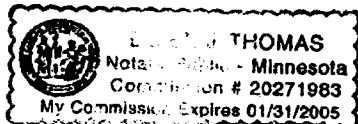
CERTIFICATE OF ACKNOWLEDGMENT

STATE OF Minnesota)
) SS:
) OF Ramsey)
 Subscribed and sworn to before me, a Notary Public, this 17th day of November, 2004.

Ellen J. Thomas
 Notary Public

Comment [COMMENT1]: Note: If Documents are executed in Kentucky, Massachusetts, Pennsylvania or Virginia, then I) change "STATE" to "COMMONWEALTH". Also, if executed in the state of Louisiana, change "COUNTY" to "PARISH".

(SEAL)



ASSIGNMENT [Entity]	Attorney Docket No.: 34004/US	Page 2 of 2
	First Named Inventor: Matthew P. Dugas	
	Title: Apparatuses and Methods for Pre-Erasing During Manufacture of Magnetic Tape	

Theodore A. Schwarz
Theodore A. Schwarz

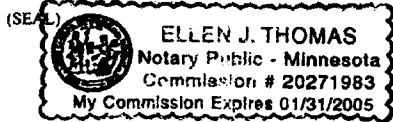
CERTIFICATE OF ACKNOWLEDGMENT

STATE OF Minnesota)
Ramsey)
COUNTY OF Ramsey) ss. _____

Subscribed and sworn to before me, a Notary Public, this 7th day of November, 2004.

Ellen J. Thomas
Notary Public

Comment [COMMENT2]: Note: If Documents are executed in Kentucky, Massachusetts, Pennsylvania or Virginia, then 1) change "STATE" to "COMMONWEALTH". Also, if executed in the state of Louisiana, change "COUNTY" to "PARISH".



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