	Atty Docket No.: ARC0002/US
Form PTO-1595 (Rev. 6-93) RECORDATION FORM	1 COVER SHEET U.S. DEPARTMENT OF COMMERCE
OMB No. 0651-0011 (exp. 4/94) <b>PATENTS O</b>	NLY Patent and Trademark Office
To the Director of the US Patent and Trademark Office: Pl	lease record the attached original document or copy thereof:
1. Name of conveying party(ies):  Matthew P. Dugas Theodore A. Schwarz Gregory L. Wagner	2. Name and address of receiving party(ies):  Advanced Research Corporation 815 14 <sup>th</sup> Avenue S.E. Minneapolis, Minnesota 55414
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	100
3. Nature of conveyance:	- 05-13-2001 E
<ul><li>✓ Assignment</li><li>✓ Merger</li><li>✓ Security Agreement</li><li>✓ Change of Name</li><li>✓ Other</li></ul>	102743770
Execution Date(s): May 7, 2004	
4. Application number(s) or patent number(s):  If this document is being filed together with a new as May 7, 2004.	pplication, the execution date of the application is:
A. Patent Application No(s).	B. Patent No(s).
5. Name and address of party to whom correspondence concerning document should be mailed:  David B. Kagan, Reg. No. 33,406  33072  PATENT TRADEMARK OFFICE Phone: (651) 275-9804  Facsimile: (651) 351-2954	6. Total number of applications and patents involved: 1
	7. Total fee (37 CFR 3.41) \$40.00
5/11/2004 HMARZI1 00000075 10840857 04 FC:8021 40.00 OP	<ul> <li>☑ Enclosed</li> <li>☑ Authorized to charge any underpayment or credit any overpayment to deposit account</li> <li>8. Deposit Account number: 50-1775</li> </ul>
DO NOT US	SE THIS SPACE
is a true copy of the original document.	g information is true and correct and any attached copy
David B. Kagan, #33,406  Name of person signing	May 7, 2004 Date
Name of person signing Signature	
	g cover sheet, attachments, and document: 4

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

M.S. Assignment Recordation Services, Director of the US Patent and Trademark Office,
P.O. Box 1450, Alexandria, VA 22313-1450

KJH/11669

## **ASSIGNMENT**

WHEREAS, we, Matthew P. Dugas, of 2324 Valentine Avenue, St. Paul, Minnesota, 55108, Theodore A. Schwarz, of 1462 Tamberwood Trail, St. Paul, Minnesota, 55125, and Gregory L. Wagner, of 4101 Gale Circle, Arden Hills, Minnesota 55112, have invented certain new and useful improvements in SERVO SYSTEMS, SERVO HEADS, SERVO PATTERNS FOR DATA STORAGE ESPECIALLY FOR READING, WRITING, AND RECORDING IN MAGNETIC RECORDING TAPE, the specification of which is attached hereto;

WHEREAS, ADVANCED RESEARCH CORPORATION, Corporation of the State of Minnesota, and having an address of 815 14<sup>th</sup> Avenue S.E., 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 therefore;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we 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, the 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 rights under the International Convention, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee in accordance herewith.

We further authorize said assignee, it 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.

We do hereby covenant and agree with the said assignee, its successors and assigns, that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we or our executors or administrators will, at any time upon request, without further or additional consideration, but at the expense of 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, 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.

PATENT REEL: 015311 FRAME: 0904

In Witness Whereof, we have he date(s) written below.	reunto set our hands and affixed our seals on the	
	Matthew P. Dugas Date	<b>.e</b>
STATE OF MINNESOTA )  SS.  COUNTY OF Lashington )		
Matthew P. Dugas, to me known to be the	, 2004, before me personally appeared heterson described in and who executed the I that he executed the same as his free act and deed.	
Paula J Breeden Notary Public	PAULA J. BREEDEN NOTARY PUBLIC My Commission Expires Jan. 31, 2005	
	Theodore A. Szlmanz 7 May 200 Theodore A. Schwarz Date	4
STATE OF MINNESOTA )  (SS. COUNTY OF Washington )		
On this 1th day of May Theodore A. Schwarz, to me known to foregoing instrument and acknowledged	, 2004, before me personally appeared the person described in and who executed the that he executed the same as his free act and deed.	
Paula J Kreden Notary Public	PAULA J. BREEDEN NOTARY PUBLIC My Commission Expires Jan. 31, 2005	

PATENT REEL: 015311 FRAME: 0905

Docket No. ARC0002/US

	Gregory L. Wagner	Dat
STATE OF MINNESOTA	) )	
COUNTY OF Libshington	)	
Gregory L. Wagner, to me known	, 2004, before me personally appear n to be the person described in and who executed the eledged that he executed the same as his free act and described	
Paula J Breeden Notary Public	PAULA J. BREEDEN NOTARY PUBLIC My Commission Expires Jan. 31, 2005	

RECORDED: 05/07/2004

PATENT REEL: 015311 FRAME: 0906