**PATENT ASSIGNMENT COVER SHEET**

**SUBMISSION TYPE:** NEW ASSIGNMENT

**NATURE OF CONVEYANCE:** ASSIGNMENT

### CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>MATTHEW P. DUGAS</td>
<td>11/17/2004</td>
</tr>
<tr>
<td>THEODORE A. SCHWARZ</td>
<td>11/17/2004</td>
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### RECEIVING PARTY DATA

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<tr>
<th>Name</th>
<th>ADVANCED RESEARCH CORPORATION</th>
</tr>
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<tbody>
<tr>
<td>Street Address:</td>
<td>4459 WHITE BEAR PARKWAY</td>
</tr>
<tr>
<td>City:</td>
<td>WHITE BEAR</td>
</tr>
<tr>
<td>State/Country:</td>
<td>MINNESOTA</td>
</tr>
<tr>
<td>Postal Code:</td>
<td>55110</td>
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### PROPERTY NUMBERS Total: 2

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<td>7710675</td>
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### CORRESPONDENCE DATA

- **Fax Number:**
  - Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.
- **Phone:** 612-604-6400
- **Email:** patent@winthrop.com
- **Correspondent Name:** WINTHROP & WEINSTINE, P.A.
- **Address Line 1:** CAPELLA TOWER, SUITE 3500
- **Address Line 2:** 225 S 6TH STREET
- **Address Line 4:** MINNEAPOLIS, MINNESOTA 55402

**ATTORNEY DOCKET NUMBER:** 14512.53.7.US.C2

**NAME OF SUBMITTER:** NATHAN J. WITZANY

**SIGNATURE:** /Nathan J. Witzany/

**DATE SIGNED:** 03/25/2015

Total Attachments: 2
- source=10173966_1#page1.tif
- source=10173966_1#page2.tif
ASSIGNMENT

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 divisions, 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 Commissioners 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 or its assigns, 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 their 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

County of Ramsey

Subscribed and sworn to before me, a Notary Public, this 11th day of November, 2004.

Elaine J. Thomas
Notary Public

(Seal)

Comment (COMMENTS): Note: If Documents are submitted in Kentucky, Massachusetts, Pennsylvania or Virginia, the following line may be crossed out:

"1) change "STATE" to "COMMONWEALTH."
2) Also, if executed in the state of Louisiana, change "COUNTY" to "PARISH."
ASSIGNMENT

First Named Inventor: Matthew P. Dugas
Title: Apparatus and Methods for Pre-Erasing During Manufacture of Magnetic Tape

THEODORE A. SCHWARTZ

STATE OF
Minnneta
COUNTY OF Ramsey

Subscribed and sworn to before me, a Notary Public, this 11th day of November, 2004.

ELLEN J. THOMAS
Notary Public

ELLEN J. THOMAS
Notary Public - Minnesota
Commission # 2021983
My Commission Expires 01/31/2005