

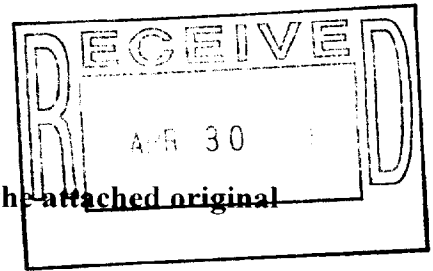
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05-05-1999

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To the Honorable Commissioner of Patents documents or copy thereof:

rd the attached original

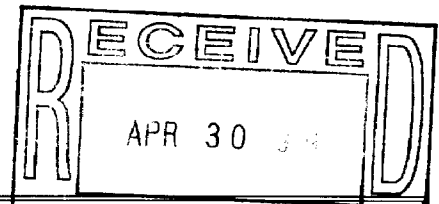
<p>1. Name of conveying party(ies):</p> <p><b>Donald J. Bray, Chandra Venkatraman, Craig A. Outten, Christopher Halter, and Arvind Goel</b></p>	<p>2. Name and address of receiving party(ies):</p> <p><b>Advanced Refractory Technologies, Inc. 699 Hertel Avenue Buffalo, New York 14207</b></p> <p style="text-align: right; font-size: 2em;"><i>4.30.99</i></p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment  <input type="checkbox"/> Merger  <input type="checkbox"/> Security Agreement  <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other: _____</p> <p>Execution Date(s):</p> <p>1st Inventor :           <b>April 16, 1999</b>  2nd Inventor:           <b>April 13, 1999</b>  3rd Inventor:           <b>April 13, 1999</b>  4th Inventor:           <b>April 13, 1999</b>  5th Inventor:           <b>April 6, 1999</b></p>	
<p>4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date(s) of the application is(are):</p> <p>1st (sole) Inventor:  2nd Inventor:  3rd Inventor:  4th Inventor:</p> <p>A. Patent Application No.(s):   <b>09/204,441</b></p> <p>B. Patent No.(s):</p>	

05/04/1999 JSHABAZZ 00000036 09204441

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R293158.1  
Docket No.: 20497/331



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

**Jeffery B. Arnold, Esq.**  
**Nixon, Hargrave, Devans & Doyle LLP**  
**Clinton Square**  
**P.O. Box 1051**  
**Rochester, New York 14603**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41): **\$40.00**

Previously paid (see original transmittal)

A check in the amount of **\$40.00** is enclosed.

8. Deposit Account Number: 14-1138

Charge total fee to account.

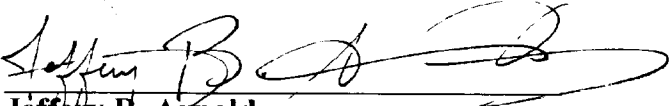
Charge any additional fees to account.

DO NOT USE THIS SPACE

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.


Date: APRIL 26, 1999

  
**Jeffery B. Arnold**

[Total number of pages including cover sheet, attachments and document: 5]

**Certificate of Mailing - 37 CFR 1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner of Patents and Trademarks, Washington, D.C 20231 on the date below.

4/26/99   
 Date | Jo Ann Whaley

**PATENT**  
**REEL 9920 FRAME: 0738**

## ASSIGNMENT

WHEREAS, We, **Donald J. Bray**, a **United States citizen**, residing at **503 Charles Gate Circle, East Amherst, New York 14051**, **Chandra Venkatraman**, a citizen of **India**, residing at **135 Spring Meadow Drive, Apartment 2, Williamsville, New York 14221**, **Craig A. Outten**, a **United States citizen**, residing at **284 Woodward Avenue, Buffalo, New York 14214**, **Christopher Halter**, a **United States citizen**, residing at **3022 Kirschner Parkway, Hamburg, New York 14075**, **Arvind Goel**, a citizen of **India**, residing at **2200 Ben Franklin Parkway, Suite N312, Philadelphia, Pennsylvania 19130** have invented certain new and useful improvements in **FLUORINE-DOPED DIAMOND-LIKE COATINGS** for which we have executed an application for Letters Patent in the United States, filed as U. S. Serial No. **09/204,441** on **December 2, 1998**;

AND WHEREAS, **Advanced Refractory Technologies, Inc.**, a New York corporation, with its principal place of business at **699 Hertel Avenue, Buffalo, New York 14207**, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Advanced Refractory Technologies, Inc.**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Advanced Refractory Technologies, Inc.**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Advanced Refractory Technologies, Inc.**, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Advanced Refractory Technologies, Inc.**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 6 day  
of April, 1999.



**Donald J. Bray**

STATE OF New York  
COUNTY OF Erie SS:

This 16<sup>th</sup> day of April, 1999, before me personally came the  
above-named **Donald J. Bray**, to me personally known as the individual who executed the  
same of his own free will for the purposes therein set forth.

**SANDRA R. HANAGAN**  
Notary Public, State of New York  
Qualified in Erie County  
My Commission Expires Dec. 6, 1999

  
Notary Public

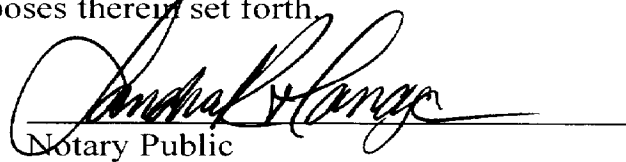
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13<sup>th</sup> day  
of APRIL, 1999.

  
**Chandra Venkatraman**

STATE OF New York  
COUNTY OF Erie SS:

This 13<sup>th</sup> day of April, 1999, before me personally came the  
above-named **Chandra Venkatraman**, to me personally known as the individual who  
executed the same of his own free will for the purposes therein set forth.

**SANDRA R. HANAGAN**  
Notary Public, State of New York  
Qualified in Erie County  
My Commission Expires Dec. 6, 1999

  
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13<sup>th</sup> day  
of APRIL, 1999.

  
**Craig A. Outten**

STATE OF New York  
COUNTY OF Erie SS:

This 13<sup>th</sup> day of April, 1999, before me personally came the  
above-named **Craig A. Outten**, to me personally known as the individual who executed the  
same of his own free will for the purposes therein set forth.

**SANDRA R. HANAGAN**  
Notary Public, State of New York  
Qualified in Erie County  
My Commission Expires Dec. 6, 1999

  
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13<sup>th</sup> day of April, 1999.

*Christopher Halter*  
Christopher Halter

STATE OF New York  
COUNTY OF Erie SS:

This 13<sup>th</sup> day of April, 1999, before me personally came the above-named **Christopher Halter**, to me personally known as the individual who executed the same of his own free will for the purposes therein set forth.

SANDRA R. HANAGAN  
Notary Public, State of New York  
Qualified in Erie County  
My Commission Expires Dec. 6, 1999

*Sandra R. Hanagan*  
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 6<sup>th</sup> day of APRIL, 1999.

*Arvind Goel*  
Arvind Goel

STATE OF Pennsylvania  
COUNTY OF Philadelphia SS:

This 6<sup>th</sup> day of April, 1999, before me personally came the above-named **Arvind Goel**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

*Michael J. Carlone*  
Notary Public

NOTARIAL SEAL  
MICHAEL J. CARLONE, Notary Public  
City of Philadelphia, Phila. County  
My Commission Expires Feb. 19, 2001

Sworn to and subscribed before me  
this 6<sup>th</sup> day of April, 1999