

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT            |               |                           |                        |                       |                     |            |                       |            |                     |            |
|---|---------------------------|---------------|---------------------------|------------------------|-----------------------|---------------------|------------|-----------------------|------------|---------------------|------------|
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <b>CONVEYING PARTY DATA</b>   |                           |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Swales Aerospace</td> <td>11/07/2003</td> </tr> <tr> <td>Edward J. Kroliczek</td> <td>11/17/2003</td> </tr> <tr> <td>Kimberly R. Wrenn</td> <td>12/03/2003</td> </tr> <tr> <td>David A. Wolf Sr.</td> <td>11/17/2003</td> </tr> </tbody> </table> |                           | Name          | Execution Date            | Swales Aerospace       | 11/07/2003            | Edward J. Kroliczek | 11/17/2003 | Kimberly R. Wrenn     | 12/03/2003 | David A. Wolf Sr.   | 11/17/2003 |
| Name  | Execution Date            |               |                           |                        |                       |                     |            |                       |            |                     |            |
| Swales Aerospace  | 11/07/2003                |               |                           |                        |                       |                     |            |                       |            |                     |            |
| Edward J. Kroliczek   | 11/17/2003                |               |                           |                        |                       |                     |            |                       |            |                     |            |
| Kimberly R. Wrenn   | 12/03/2003                |               |                           |                        |                       |                     |            |                       |            |                     |            |
| David A. Wolf Sr.   | 11/17/2003                |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <b>RECEIVING PARTY DATA</b>   |                           |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;"><b>Name:</b></td> <td>Swales &amp; Associates, Inc.</td> </tr> <tr> <td><b>Street Address:</b></td> <td>5050 Powder Mill Road</td> </tr> <tr> <td><b>City:</b></td> <td>Beltsville</td> </tr> <tr> <td><b>State/Country:</b></td> <td>MARYLAND</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>20705</td> </tr> </table>   |                           | <b>Name:</b>  | Swales & Associates, Inc. | <b>Street Address:</b> | 5050 Powder Mill Road | <b>City:</b>        | Beltsville | <b>State/Country:</b> | MARYLAND   | <b>Postal Code:</b> | 20705      |
| <b>Name:</b>  | Swales & Associates, Inc. |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <b>Street Address:</b>  | 5050 Powder Mill Road     |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <b>City:</b>  | Beltsville                |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <b>State/Country:</b>   | MARYLAND                  |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <b>Postal Code:</b>   | 20705                     |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <b>PROPERTY NUMBERS Total: 1</b>  |                           |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>6382309</td> </tr> </tbody> </table>   |                           | Property Type | Number                    | Patent Number:         | 6382309               |                     |            |                       |            |                     |            |
| Property Type   | Number                    |               |                           |                        |                       |                     |            |                       |            |                     |            |
| Patent Number:  | 6382309                   |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <b>CORRESPONDENCE DATA</b>  |                           |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <p>Fax Number: (202)783-2331<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: lbc@fr.com</p> <p>Correspondent Name: W. Karl Renner</p> <p>Address Line 1: 1425 K Street, NW, 11th Floor</p> <p>Address Line 2: Fish &amp; Richardson P.C.</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20005</p>  |                           |               |                           |                        |                       |                     |            |                       |            |                     |            |
| <b>NAME OF SUBMITTER:</b>   | Diana DiBerardino         |               |                           |                        |                       |                     |            |                       |            |                     |            |

Total Attachments: 5  
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**PATENT**

**REEL: 016127 FRAME: 0653**

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ASSIGNMENT

If the Assignment executed on May 30, 2000 and recorded in the United States Patent and Trademark Office at Reel 011076, Frame 0664 on September 5, 2000 effected title transfer from the inventors to Swales Aerospace, then:

For valuable consideration, we, Swales Aerospace of Beltsville, Maryland, hereby assign to:

Swales & Associates, Inc., a corporation of Delaware having a place of business at:  
 5050 Power Mill Road  
 Beltsville, Maryland 20705; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of U.S. Patent No. 6,382,309, entitled WICK HAVING LIQUID SUPERHEAT TOLERANCE AND BEING RESISTANT TO BACK-CONDUCTION, EVAPORATOR EMPLOYING A LIQUID SUPERHEAT TOLERANT WICK, AND LOOP HEAT PIPE INCORPORATING SAME, filed May 16, 2000, assigned U.S. Application No. 09/571,779, this assignment including said patent, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date 11-7-03 Name: William C. Leeman  
 Title: Secretary & General Counsel

If the Assignment executed on May 30, 2000 and recorded in the United States Patent and Trademark Office at Reel 011076, Frame 0664 on September 5, 2000 did not effect title transfer from the inventors to Swales Aerospace for any reason, then:

For valuable consideration, we, EDWARD J. KROLICZEK of Davidsonville, Md., KIMBERLY R. WRENN of Sykesville, Md., DAVID A WOLF, SR. of Baltimore, Md., hereby assign to:

Swales & Associates, Inc., a corporation of Delaware having a place of business at:

5050 Power Mill Road  
Beltsville, Maryland 20705; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of U.S. Patent No. 6,382,309, entitled WICK HAVING LIQUID SUPERHEAT TOLERANCE AND BEING RESISTANT TO BACK-CONDUCTION, EVAPORATOR EMPLOYING A LIQUID SUPERHEAT TOLERANT WICK, AND LOOP HEAT PIPE INCORPORATING SAME, filed May 16, 2000, assigned U.S. Application No. 09/571,779, this assignment including said patent, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

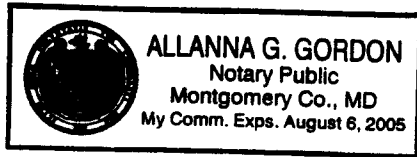
IN WITNESS WHEREOF, I hereto set my hand and seal at BELTSVILLE, MO.  
this 17<sup>th</sup> day of NOVEMBER, 2003  
Edward J. Kroliczek L.S.  
EDWARD J. KROLICZEK

State of Maryland :

: ss.

County of Prince Georges:

Before me this 17<sup>th</sup> day of November, 2003, personally  
appeared EDWARD J. KROLICZEK known to me to be the person whose name is subscribed to  
the foregoing Assignment and acknowledged that he executed the same as his free act and deed  
for the purposes therein contained.



[Notary's Seal Here]

Allanna Gordon  
Notary Public  
My Commission Expires: August 6, 2005

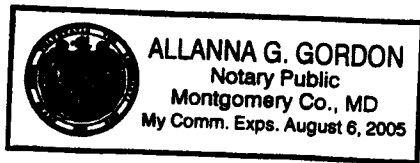
IN WITNESS WHEREOF, I hereto set my hand and seal at Beltsville, MD,  
this 3 day of December, 2003  
Kimberly R. Wrenn L.S.  
KIMBERLY R. WRENN

State of Maryland :

: ss.

County of Prince Georges:

Before me this 3rd day of December, 2003, personally  
appeared KIMBERLY R. WRENN known to me to be the person whose name is subscribed to  
the foregoing Assignment and acknowledged that he executed the same as his free act and deed  
for the purposes therein contained.



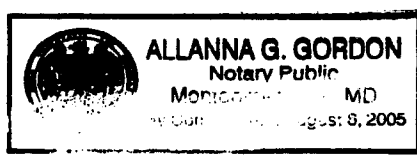
Allanna G. Gordon  
Notary Public  
My Commission Expires: August 6, 2005

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Beltzville, MD,  
this 17 day of November, 20 03  
David A. Wolf Sr L.S.  
DAVID A. WOLF SR.

State of Maryland :  
: ss.  
County of Prince Georges :

Before me this 17<sup>th</sup> day of November, 20 03, personally  
appeared DAVID A. WOLF SR. known to me to be the person whose name is subscribed to the  
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Allanna G. Gordon  
Notary Public  
My Commission Expires: August 6, 2005

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