

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Vladimir Semenovitch Abramov</td> <td>11/10/2005</td> </tr> <tr> <td>Alexander Valerievitch Shishov</td> <td>11/10/2005</td> </tr> <tr> <td>Nikolay Valentinovich Scherbakov</td> <td>11/10/2005</td> </tr> <tr> <td>Valeriy Petrovich Sushkov</td> <td>11/10/2005</td> </tr> <tr> <td>Alexey Alexeevich Ivanov</td> <td>11/10/2005</td> </tr> </tbody> </table>		Name	Execution Date	Vladimir Semenovitch Abramov	11/10/2005	Alexander Valerievitch Shishov	11/10/2005	Nikolay Valentinovich Scherbakov	11/10/2005	Valeriy Petrovich Sushkov	11/10/2005	Alexey Alexeevich Ivanov	11/10/2005
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RECEIVING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>ACOL Technologies</td> </tr> <tr> <td>Street Address:</td> <td>Rue des Sablieres 5-7</td> </tr> <tr> <td>City:</td> <td>Satigny</td> </tr> <tr> <td>State/Country:</td> <td>SWITZERLAND</td> </tr> <tr> <td>Postal Code:</td> <td>CH-1242</td> </tr> </table>		Name:	ACOL Technologies	Street Address:	Rue des Sablieres 5-7	City:	Satigny	State/Country:	SWITZERLAND	Postal Code:	CH-1242		
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Street Address:	Rue des Sablieres 5-7												
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PROPERTY NUMBERS Total: 1													
<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>Application Number:</td> <td>12166889</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12166889								
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CORRESPONDENCE DATA													
<p>Fax Number: (412)945-5933</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 412.471.8815</p> <p>Email: assignments@webblaw.com</p> <p>Correspondent Name: The Webb Law Firm</p> <p>Address Line 1: 700 Koppers Building, 436 Seventh Avenue</p> <p>Address Line 4: Pittsburgh, PENNSYLVANIA 19219</p>													
ATTORNEY DOCKET NUMBER:	5809-082173												
NAME OF SUBMITTER:	Randall A. Notzen, Reg. No. 36,882												

OP \$40.00 12166889

501082215

PATENT
REEL: 023883 FRAME: 0177

Total Attachments: 6

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RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Vladimir Semenovich Abramov;
Alexander Valerievich Shishov;
Nikolay Valentinovich Scherbakov;
Valeriy Petrovich Sushkov; and Alexey Alexeevich Ivanov

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 11/10/05; 11/10/05; 11/10/05; 11/10/05; 11/10/05

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: ACOL Technologies

Internal Address: _____

Street Address: Rue des Sablieres 5-7

City: Satigny

State: _____

Country: Switzerland Zip: CH-1242

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)
12/166,889

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: _____

Internal Address: The Webb Law Firm

Street Address: 436 Seventh Avenue
700 Koppers Building

City: Pittsburgh

State: PA Zip: 15219

Phone Number: 412-471-8815

Fax Number: 412-945-5933

Email Address: assignments@webblaw.com

6. Total number of applications and patents involved: one

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers 4775
Expiration Date 05/2012

b. Deposit Account Number 23-0650

Authorized User Name _____

9. Signature:



Signature

February 2, 2010

Date

Randall A. Notzen, Reg. No. 36,882

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Doc. No. 2542668.PDF

PATENT
REEL: 023883 FRAME: 0179

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

261.20

Whereas, I/We, Abramov, Vladimir Semenovitch of Moscow, Russia, hereafter referred to as applicant, have invented certain new and useful improvements in _____

3-D Peltier Cooling Systems with High Aspect Ratio

☐ for which an application for a United States Patent was filed on _____
Application Number _____

☒ for which an application for a United States Patent was executed on November 2005 and

Whereas, ACOL Technologies of Satigny, Switzerland CH-1242 here referred

to "assignee" whose mailing address is Rue des Sablières 5-7 is

desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 10th day of November, 20 05
at Moscow, Russia



Signature

Abramov, Vladimir Semenovitch

Printed Name/Registration No., if applicable

State of _____

SS:

County of _____

Before me personally appeared said _____

and acknowledged the foregoing instrument to be his free act and deed this _____

day of _____, 20 _____

Seal

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below.

☒ Total of 3 forms are submitted.

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PATENT
REEL: 017409 FRAME: 0377

PATENT
REEL: 023883 FRAME: 0180

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

261.20

Whereas, I/We, SHISHOV Alexander Valerievich of Moscow, Russia, hereafter referred to as applicant, have invented certain new and useful improvements in 3-D Peltier Cooling Systems with High Aspect Ratio

☐ for which an application for a United States Patent was filed on _____
Application Number _____

☒ for which an application for a United States Patent was executed on November 2005, and

Whereas, ACOL Technologies of Satigny, Switzerland CH-1242 here referred to "assignee" whose mailing address is Rue des Sablières 5-7 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 10th day of November, 20 05
at Moscow, Russia



Signature

SHISHOV Alexander Valerievich

Printed Name/Registration No., if applicable

State of _____

SS:

County of _____

Before me personally appeared said _____

and acknowledged the foregoing instrument to be his free act and deed this _____

day of _____, 20 _____

Seal

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below.

☒ Total of 5 forms are submitted

This form offers a sample or suggested format for an assignment document. This sample form is not an OMB officially approved form.

PATENT
REEL: 017409 FRAME: 0380

PATENT
REEL: 023883 FRAME: 0181

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

261.20

Whereas, I/We, SCHERBAKOV Nikolay Valentinovich of Moscow, Russia, hereafter referred to as applicant, have invented certain new and useful improvements in 3-D Peltier Cooling Systems with High Aspect Ratio

☐ for which an application for a United States Patent was filed on _____
Application Number _____

☒ for which an application for a United States Patent was executed on November 2005, and

Whereas, ACOL Technologies of Satigny, Switzerland CH-1242 here referred

to "assignee" whose mailing address is Rue des Sablières 5-7 is

desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 10th day of November, 20 05
at Moscow, Russia



Signature

SCHERBAKOV Nikolay Valentinovich

Printed Name/Registration No., if applicable

State of _____

SS:

County of _____

Before me personally appeared said _____

and acknowledged the foregoing instrument to be his free act and deed this _____

day of _____, 20 _____

Seal

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below.

☒ Total of 5 forms are submitted.

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PATENT
REEL: 017409 FRAME: 0379

PATENT
REEL: 023883 FRAME: 0182

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

261.20

Whereas, I/We, SUSHKOV Valeriy Petrovich of Moscow, Russia, hereafter

referred to as applicant, have invented certain new and useful improvements in _____

3-D Peltier Cooling Systems with High Aspect Ratio☐ for which an application for a United States Patent was filed on _____

Application Number _____

☒ for which an application for a United States Patent was executed on November 2005, andWhereas, ACOL Technologies of Satigny, Switzerland CH-1242 here referredto "assignee" whose mailing address is Rue des Sablières 5-7 is

desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 10th day of November, 20 05at Moscow, Russia*Signature*

Signature

SUSHKOV Valeriy Petrovich

Printed Name/Registration No., if applicable

State of _____

SS:

County of _____

Before me personally appeared said _____

and acknowledged the foregoing instrument to be his free act and deed this _____

day of _____, 20 _____

Seal

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below.

☒ Total of 5 forms are submitted.

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RECORDED: 12/22/2005

PATENT
REEL: 017409 FRAME: 0381PATENT
REEL: 023883 FRAME: 0183

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

261.20

Whereas, I/We, IVANOV Alexey Alexeevich of Moscow, Russia, hereafter

referred to as applicant, have invented certain new and useful improvements in _____

3-D Peltier Cooling Systems with High Aspect Ratio☐ for which an application for a United States Patent was filed on _____

Application Number _____

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Now, therefore, in consideration of the sum of one dollars (\$ 1), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 10th day of November, 20 05at Moscow, Russia


Signature

IVANOV Alexey Alexeevich

Printed Name/Registration No., if applicable

State of _____

SS:

County of _____

Before me personally appeared said _____

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PATENT

REEL: 017409 FRAME: 0378

PATENT

REEL: 023883 FRAME: 0184

RECORDED: 02/02/2010