

PATENT ASSIGNMENT

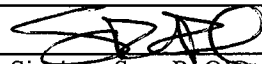
Electronic Version v1.1
 Stylesheet Version v1.1

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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kurt Richard Strobel</td> <td>12/01/2006</td> </tr> <tr> <td>Igor G. Morozov</td> <td>11/21/2006</td> </tr> </tbody> </table>		Name	Execution Date	Kurt Richard Strobel	12/01/2006	Igor G. Morozov	11/21/2006
Name	Execution Date						
Kurt Richard Strobel	12/01/2006						
Igor G. Morozov	11/21/2006						
RECEIVING PARTY DATA							
Name:	Advanced Energy Industries, Inc.						
Street Address:	1625 Sharp Point Drive						
City:	Ft. Collins						
State/Country:	COLORADO						
Postal Code:	80525						
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>11530348</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11530348		
Property Type	Number						
Application Number:	11530348						
CORRESPONDENCE DATA							
Fax Number:	(202)842-7899						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	7205664035						
Email:	sbitler@cooley.com						
Correspondent Name:	Cooley Godward Kronish						
Address Line 1:	The Bowen Bldg., 875 15th St NW St. 800						
Address Line 2:	Patent Group/Sean O'Dowd						
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20005-2221						
ATTORNEY DOCKET NUMBER:	ADEN-010/00US/AE2005017DS						
NAME OF SUBMITTER:	Sean R. O'Dowd						

Total Attachments: 5
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Form PTO-1595 (Rev. 08/05) (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2008)	RECORDATION FORM COVER SHEET PATENTS ONLY	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
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): Kurt Richard Strobel and Igor G. Morozov Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: Advanced Energy Industries, Inc. Internal Address: Street Address: 1625 Sharp Point Drive City: Ft. Collins State: CO Zip: 80525 Additional name(s) & address(es) attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3. Nature of conveyance/Execution Date(s): Execution Date(s): 12/1/2006 and 11/21/06 <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other ()		
4. Application number(s) or patent number(s): <input type="checkbox"/> This document is being filed together with a new application.		
A. Patent Application No.(s) 11/530,348	B. Patent No.(s)	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed: COOLEY GODWARD KRONISH LLP Patent Group Street Address: The Bowen Building, 875 15 th St. NW, Ste. 800 City: Washington State: DC Zip: 20005-2221	6. Total number of applications and patents involved: [1] 7. Total fee (37 CFR 1.21(h) & 3.41).....\$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 50-1283 <small>The Commissioner is hereby authorized to charge any appropriate fees under 37 CFR 3.41 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 50-1283. This paper is submitted in duplicate.</small>	
DO NOT USE THIS SPACE		
9. Signature: 		Date: December 4, 2006
Name of Person Signing: Sean R. O'Dowd, Reg. No. 53,403		
Total number of pages including cover sheet, attachments, and documents: [5]		

ASSIGNMENT

Kurt Richard Strobel, residing at 1420 Waxwing Lane, Fort Collins, CO 80524, and Igor G. Morozov 3909 Ridgeway Court, Fort Collins, CO 80526 (referred to as "Assignors") have made an invention (the "Invention") set forth in an application for patent of the United States, entitled

COOLING APPARATUS FOR ELECTRONICS

and which is a:

- (1) provisional application
- (a) to be filed herewith; or
- (b) bearing Application No. , and filed on ; or
- (2) non-provisional application
- (a) to be filed herewith; or
- (b) bearing Application No. 11/530,348, and filed on September 8, 2006.
- (c)

WHEREAS, ADVANCED ENERGY INDUSTRIES, INC., a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 1625 Sharp Point Drive, Fort Collins, CO 80525 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention; the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention; any application for patent of the United States or other countries claiming priority to these application; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignors have not done so already via a prior agreement with the Assignee, or if the Assignors have already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignors' entire right, title, and interest in:

- (a) the Invention;
- (b) the application for patent identified in paragraph (1) or (2);
- (c) the right to file applications for patent of the United States or other countries on the Invention, including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty;
- (d) any application for patent of the United States or other countries claiming the Invention;

- (e) any application for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application for patent claiming the Invention, including any division, continuation, and continuation-in-part;
- (f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and
- (g) any patent of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) – (e), including any reissue and extension of said patent.

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made.

The Assignors hereby represent to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the Invention, that the Invention are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention, said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignors hereby authorize and request the attorneys of COOLEY GODWARD KRONISH L.L.P. to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignors hereby request the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

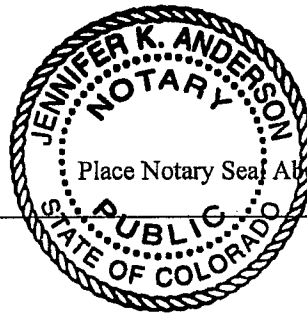
Date: 12/1/06

By: *Kurt R Strobel*
Kurt Richard Strobel

State of Colorado)
 County of Larimer)
 ss.
 On 12/1/06, before me, Jennifer K Anderson, personally
 appeared Kurt R Strobel, personally
 known to me or proved to me on the basis of satisfactory evidence, to be the person whose name is/are
 subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their signature on the instrument the person,
 or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Jennifer K Anderson
 Signature of Notary Public
 My Commission Expires: 9/23/09



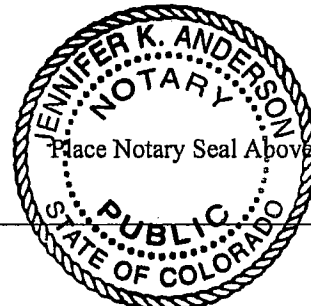
My Commission Expires 09/23/2009

Date: 11/21/2006 By: *Igor G. Morozov*
Igor G. Morozov

State of Colorado)
 County of Lincoln)
 ss.
 On November 21, 2006, before me, Jennifer K. Anderson, personally
 appeared Igor G. Morozov, personally
 known to me or proved to me on the basis of satisfactory evidence, to be the person whose name is/are
 subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
 his/her/their authorized capacity(ies), and that by his/her/their signature on the instrument the person,
 or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Jennifer K. Anderson
 Signature of Notary Public
 My Commission Expires: 9/23/09



My Commission Expires 09/23/2009