

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Milan Ilic</td> <td>02/23/2007</td> </tr> <tr> <td>Vladislav Vladimirovich Shilo</td> <td>02/23/2007</td> </tr> <tr> <td>Robert Brian Huff</td> <td>03/01/2007</td> </tr> </tbody> </table>		Name	Execution Date	Milan Ilic	02/23/2007	Vladislav Vladimirovich Shilo	02/23/2007	Robert Brian Huff	03/01/2007
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Milan Ilic	02/23/2007								
Vladislav Vladimirovich Shilo	02/23/2007								
Robert Brian Huff	03/01/2007								
RECEIVING PARTY DATA									
Name:	Advanced Energy Industries, Inc.								
Street Address:	1625 Sharp Point Drive								
City:	Fort 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>11677786</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11677786				
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Application Number:	11677786								
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								
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Address Line 1:	1200 19th St NW, 5th Floor								
Address Line 2:	Attn: Patent Dept/SRO'Dowd								
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20036								
ATTORNEY DOCKET NUMBER:	ADEN-012/00US/AE2006001								
NAME OF SUBMITTER:	Sean R. O'Dowd								

CH \$40.00 11677786

Total Attachments: 5
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ASSIGNMENT

Milan Ilic, residing at 3239 Sagewater Court, Fort Collins, CO 80528, Vladislav Vladimirovich Shilo, residing at 1926 Mainsail Drive, Fort Collins, CO 805245, and Robert Brian Huff, residing at 4524 Skyline Drive, Fort Collins, CO 80526 (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled **ARC RECOVERY WITHOUT OVER-VOLTAGE FOR PLASMA CHAMBER POWER SUPPLIES USING A SHUNT SWITCH**, 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. 11/677,786, and filed on February 22, 2007.

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, Ft. 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 Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (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(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) 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(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

(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(s) 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(s) and extension(s) of said patent(s).

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 Assignor had this sale and assignment not been made.

The Assignor hereby represents 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 Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees 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(s), 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 Assignor hereby authorizes and requests 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 Assignor hereby requests 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: 02/23/2007

By: Milan Ilic
Milan Ilic

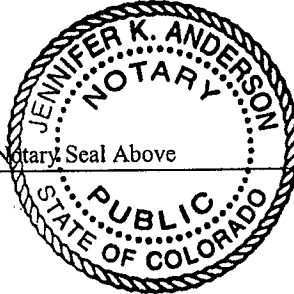
State of Colorado)
) ss.
 County of Larimer)

On 2/23/07, before me, Jennifer K Anderson, personally appeared Milan Ilic, personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) 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(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

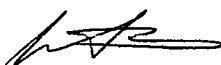
Jennifer K Anderson
 Signature of Notary Public

Place Notary Seal Above



My Commission Expires 09/23/2009

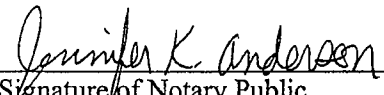
Date: 02/23/2007

By: 
Vladislav Vladimirovich Shilo

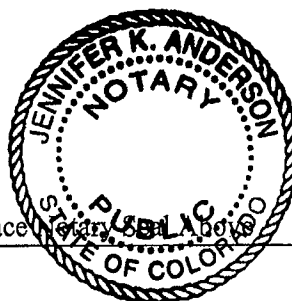
State of Colorado)
 County of Larimer)
 SS.

On 2/23/07, before me, Jennifer K Anderson, personally appeared Vladislav Shilo, personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) 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(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.


 Signature of Notary Public

Place Notary Seal Above



My Commission Expires 09/23/2009

Date: 3/1/2007

By: Robert Brian Huff
Robert Brian Huff

State of Colorado)
) ss.
 County of Lincoln)

On March 1, 2007, before me, Jennifer K. Anderson, personally appeared Robert B. Huff, personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) 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(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Jennifer K. Anderson
 Signature of Notary Public



Place Notary Seal Above

My Commission Expires 09/23/2009