

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Constance Senior</td> <td>07/20/2012</td> </tr> <tr> <td>Gregory M. Filippelli</td> <td>07/26/2012</td> </tr> <tr> <td>Cynthia Jean Bustard</td> <td>07/20/2012</td> </tr> <tr> <td>Michael D. Durham</td> <td>07/20/2012</td> </tr> <tr> <td>William J. Morris</td> <td>07/16/2012</td> </tr> <tr> <td>Sharon M. Sjostrom</td> <td>07/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Constance Senior	07/20/2012	Gregory M. Filippelli	07/26/2012	Cynthia Jean Bustard	07/20/2012	Michael D. Durham	07/20/2012	William J. Morris	07/16/2012	Sharon M. Sjostrom	07/20/2012
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<table border="1"> <tr> <td>Name:</td> <td>ADA-ES, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>9135 S. Ridgeline Blvd., Suite 200</td> </tr> <tr> <td>City:</td> <td>Highlands Ranch</td> </tr> <tr> <td>State/Country:</td> <td>COLORADO</td> </tr> <tr> <td>Postal Code:</td> <td>80129</td> </tr> </table>		Name:	ADA-ES, Inc.	Street Address:	9135 S. Ridgeline Blvd., Suite 200	City:	Highlands Ranch	State/Country:	COLORADO	Postal Code:	80129				
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Application Number:	13471015														
CORRESPONDENCE DATA															
Fax Number:	3038630223														
Phone:	303-863-9700														
Email:	dswartz@sheridanross.com														
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
Correspondent Name:	Douglas W. Swartz/Sheridan Ross PC														
Address Line 1:	1560 Broadway														
Address Line 2:	Suite 1200														
Address Line 4:	Denver, COLORADO 80202														
ATTORNEY DOCKET NUMBER:	3791-94-1 DWS														

CH \$40.00 13471015

NAME OF SUBMITTER:

Douglas W. Swartz

Total Attachments: 2

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Worldwide Assignment

WHEREAS, I/We Constance Senior, Gregory M. Filippelli, Cynthia Jean Bustard, Michael D. Durham, William J. Morris and Sharon M. Sjostrom, have made an invention entitled "PROCESS TO REDUCE EMISSIONS OF NITROGEN OXIDES AND MERCURY FROM COAL-FIRED BOILERS" for which I/We have filed an application for Letters Patent of the United States on May 14, 2012, under Application No. 13/471,015 and

WHEREAS, ADA-ES, Inc. ("ASSIGNEE"), a corporation or other business entity duly registered in the State/Country of Colorado, whose postal address is 9135 S. Ridgeline Blvd., Ste. 200, Highlands Ranch, Colorado 80129, desires to acquire the entire right, title, and interest in and to the invention, the application, and any Letters Patent to be granted for the invention in the United States and in all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) paid to me/us by ASSIGNEE, and other good and valuable consideration, the receipt and sufficiency of which I/We acknowledge, I/We, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the invention, the application, all applications claiming benefit of the application, including, but not limited to, all divisions and continuations of the application, and all Letters Patent that may be granted thereon in the United States, Canada and in all foreign countries, and all reissues thereof, together with the right to claim priority under the International Convention in all member countries; and I/We authorize and request the Director of Patents and Trademarks to issue all Letters Patent for the invention to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

AND I/We covenant and agree that I/We have the full right to convey the entire right, title, and interest herein assigned and that I/We have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

AND I/We further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, I/We will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the invention in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to me/us regarding the invention, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in ASSIGNEE, its successors, legal representatives, and/or assigns, execute all divisional, continuation, and reissue applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns;

AND I/We further hereby authorize ASSIGNEE, or its attorneys or agents, to insert the correct Application Number and filing Date into this Assignment, if none is indicated on that date of my/our execution of this agreement.

IN WITNESS WHEREOF, I/We have executed this Assignment on the date(s) indicated below.

Signature: Constance Senior  
 Date: 7/20/12  
 Full Name: Constance Senior  
 Address: 301 Almond St., Apt. 2  
Salt Lake City, UT 84103

Signature: Gregory M. Filippelli  
 Date: 07/24/2012  
 Full Name: Gregory M. Filippelli  
 Address: 3 Franklin Tree Court  
Catonsville, MD 21228

Signature: Cynthia Jean Bustard  
Date: 7/20/12  
Full Name: Cynthia Jean Bustard  
Address: 9193 Buffalo Dr.  
Littleton, CO 80127

Signature: William J. Morris  
Date: 7/16/12  
Full Name: William J. Morris  
Address: 8540 Grizzly Way  
Evergreen, CO 80439

Signature: Mr D D D  
Date: 7/20/12  
Full Name: Michael D. Durham  
Address: 5252 Lariat Drive  
Castle Rock, CO 80108

Signature: Sharon M. Sjostrom  
Date: 7/20/12  
Full Name: Sharon M. Sjostrom  
Address: 2072 W. Wolfensberger Rd.  
Castle Rock, CO 80109