

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MINGYAO XIA | 10/29/2016 |
| ERIC GRUBEL | 11/10/2015 |
| DAN CASTELLANO | 03/26/2015 |
| RECEIVING PARTY DATA | |
| Name: | ASOKA USA CORPORATION |
| Street Address: | 2400 CAMINO RAMON, SUITE 370 |
| City: | SAN RAMON |
| State/Country: | CALIFORNIA |
| Postal Code: | 94583 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13960741 |
| CORRESPONDENCE DATA | |
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| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 650-838-4300 |
| Email: | drevecho@perkinscoie.com |
| Correspondent Name: | PERKINS COIE LLP |
| Address Line 1: | P. O. BOX 1247 |
| Address Line 4: | SEATTLE, WASHINGTON 98111-1247 |
| ATTORNEY DOCKET NUMBER: | 110501-8006.US01 |
| NAME OF SUBMITTER: | DELLA REVECHO |
| SIGNATURE: | /Della Revecho/ |
| DATE SIGNED: | 10/31/2016 |
| Total Attachments: 5 | |
| source=Xia-Assignment#page1.tif | |
| source=Grubel-Assignment#page1.tif | |
| source=Grubel-Assignment#page2.tif | |
| source=Castellano-Assignment#page1.tif | |

ASSIGNMENT BY INVENTOR

This Assignment is by Mingyao Xia (the "Assignor"). The Assignor invented one or more certain inventions (the "Invention(s)") described in an application for Letters Patent of the United States titled **PLC BASED THERMOSTAT TEMPERATURE CONTROL FOR HEATING SYSTEMS** and filed on August 6, 2013 as U.S. Application No. 13/960,741 (the "Application").

Asoka USA Corporation, a corporation having its principal place of business at 2400 Camino Ramon, Suite 370, San Ramon, CA 94583 (the "Assignee"), desire to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignor acknowledge, Assignor hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee, and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignor warrant that Assignor own the Rights, and that the Rights are unencumbered. Assignor also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deem necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignor request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

Date: 2016.10.29

Signature: 

Mingyao Xia

DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN PATENT APPLICATION
USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENTTitle of Invention: PLC BASED THERMOSTAT TEMPERATURE CONTROL FOR HEATING
SYSTEMS

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

 United States application or PCT international application number 13/960,741 filed on August 6, 2013.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. Section 1.56.

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the Attorney Docket Number provided above in the header of this document;

Whereas, Asoka USA Corporation, a corporation duly organized under and pursuant to the laws of the state of California having its principal place of business at 2620 Augustine Drive, Suite 230, Santa Clara, California 95054, desires to acquire and each undersigned inventor desires to grant to Asoka USA Corporation, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;Now, therefore, for one dollar (\$1.00) and good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor, hereinafter referred to as ASSIGNOR, hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to Asoka USA Corporation, hereinafter referred to as ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the Assignee, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by the Assignee, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made, and each undersigned inventor agrees to execute, without charge to said Assignee but at the Assignee's expense, any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title

to the Invention and all related patents and applications, in Assignee, its successors, legal representatives, and assigns, whenever requested by the Assignee, its successors, legal representatives, or assigns.

ASSIGNOR(S) grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to the Assignee and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants the assignee, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

1) Legal Name of Inventor: Mingyao Xia

Signature: _____ Date: _____

2) Legal Name of Inventor: Eric Grabel

Signature:  _____ Date:  _____

3) Legal Name of Inventor: Dan Castellano

Signature: _____ Date: _____

**DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN PATENT APPLICATION
USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT**

Title of Invention: PLC BASED THERMOSTAT TEMPERATURE CONTROL FOR HEATING
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state of California having its principal place of business at 2620 Augustine Drive, Suite 230, Santa
Clara, California 95054, desires to acquire and each undersigned inventor desires to grant to Asoka
USA Corporation, the entire worldwide right, title, and interest in and to the Invention and in and to any
and all patent applications and patents directed thereto;

Now, therefore, for one dollar (\$1.00) and good and valuable consideration, the receipt and sufficiency
thereof being hereby acknowledged, each undersigned inventor, hereinafter referred to as ASSIGNOR,
hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to Asoka USA
Corporation, hereinafter referred to as ASSIGNEE, its successors, legal representatives, and assigns, the
entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent
application, and any and all other patent applications and patents for the Invention which may be applied
for or granted therefor in the United States and in all foreign countries and jurisdictions, including all
divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and
extensions thereof, and all rights of priority resulting from the filing of such applications and granting of
such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the
United States Patent and Trademark Office to issue any United States Patent, and foreign patent
authorities to issue any foreign patent, granted for the Invention, to the Assignee, its successors, legal
representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held
and enjoyed by the Assignee, its successors, legal representatives, and assigns to the full end of the terms
for which any and all such patents may be granted, as fully and entirely as would have been held and
enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to
execute, without charge to said Assignee but at the Assignee's expense, any and all documents and
instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title

to the Invention and all related patents and applications, in Assignee, its successors, legal representatives, and assigns, whenever requested by the Assignee, its successors, legal representatives, or assigns.

ASSIGNOR(S) grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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1) Legal Name of Inventor: Mingyao Xia

Signature: _____ Date: _____

2) Legal Name of Inventor: Eric Grubel

Signature: _____ Date: _____

3) Legal Name of Inventor: Dan Castellano

Signature: *Dan Castellano* Date: 3/26/2015