

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>Kanji NUMAO</td> <td>11/16/2012</td> </tr> <tr> <td>Tadayuki SHIBUYA</td> <td>11/16/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kanji NUMAO	11/16/2012	Tadayuki SHIBUYA	11/16/2012				
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<table border="1"> <tr> <td>Name:</td> <td>FENWAL CONTROLS OF JAPAN, LTD.</td> </tr> <tr> <td>Street Address:</td> <td>5-10, Iidabashi 1-chome</td> </tr> <tr> <td>Internal Address:</td> <td>Chiyoda-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table>		Name:	FENWAL CONTROLS OF JAPAN, LTD.	Street Address:	5-10, Iidabashi 1-chome	Internal Address:	Chiyoda-ku	City:	Tokyo	State/Country:	JAPAN
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CORRESPONDENCE DATA											
<p>Fax Number: 5719705692 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 7036830500 Email: mail@baconthomas.com Correspondent Name: BACON & THOMAS, PLLC Address Line 1: 625 SLATERS LANE Address Line 2: FOURTH FLOOR Address Line 4: ALEXANDRIA, VIRGINIA 22314-1176</p>											
ATTORNEY DOCKET NUMBER:	NUMA3001/GAL										
NAME OF SUBMITTER:	George A. Loud										
<p>Total Attachments: 2 source=NUMA3001_assignment#page1.tif source=NUMA3001_assignment#page2.tif</p>											

CH \$40.00 13702081

ASSIGNMENT

WHEREAS, I (we), **Kanji NUMAO and Tadayuki SHIBUYA** whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, is(are) the owner of certain new and useful improvements in

**LIGHT EMISSION PORTION, PHOTOELECTRIC SMOKE SENSOR,
AND SUCTION-TYPE SMOKE SENSING SYSTEM**

(hereinafter referred to as the INVENTION) for which an application for United States Letters Patent was

- ☐ executed on even date herewith
☐ executed on:
☐ filed on: Serial No.:
☒ established by PCT International Patent Application No.: PCT/JP2012/072195 filed: August 31, 2012
designating the United States of America

WHEREAS **Fenwal Controls of Japan, Ltd., 5-10, Iidabashi 1-chome, Chiyoda-ku, Tokyo, Japan;**
hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States; and

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we), ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the INVENTION that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR authorizes any member of the firm of **Bacon & Thomas, PLLC** to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office.

Assignor Name Kanji NUMAO	Address: c/o Fenwal Controls of Japan, Ltd., 232, Tobuki-machi, Hachioji-shi, Tokyo, Japan
Where Signed	Signature <i>Kanji Numao</i>
Date <i>November 16, 2012</i>	Witness (optional)
Witness (optional)	Print/Type Name
Print/Type Name	Signature
Signature	

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ASSIGNMENT

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Assignor Name Tadayuki SHIBUYA	Address c/o Fenwal Controls of Japan, Ltd., 232, Tobuki-machi, Hachioji-shi, Tokyo, Japan
Where Signed Tokyo, Japan	Signature TADAYUKI SHIBUYA
Date November, 16, 2012	Witness (optional)
Witness (optional)	Witness (optional)
Print/Type Name	Print/Type Name
Signature	Signature

Assignor Name	Address
Where Signed	
Date	Signature
Witness (optional)	Witness (optional)
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Signature	Signature

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