

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SYNAPSE, INC.	05/21/2009
RECEIVING PARTY DATA	
Name:	A. O. Smith Corporation
Street Address:	11270 West Park Place
City:	Milwaukee
State/Country:	WISCONSIN
Postal Code:	53224
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14189739
CORRESPONDENCE DATA	
Fax Number:	(414)277-0656
<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:	4142716560
Email:	mkeipdocket@michaelbest.com
Correspondent Name:	MICHAEL BEST & FRIEDRICH LLP
Address Line 1:	100 E. WISCONSIN AVENUE
Address Line 2:	SUITE 3300
Address Line 4:	MILWAUKEE, WISCONSIN 53202
ATTORNEY DOCKET NUMBER:	010121-8252-US07
NAME OF SUBMITTER:	SHELDON L. WOLFE
SIGNATURE:	/sheldon l. wolfe/
DATE SIGNED:	09/30/2014
Total Attachments: 5	
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ASSIGNMENT OF PATENTS

This Assignment of Patents is effective March 16, 2009, by SYNAPSE, INC., a corporation previously organized under the laws of the State of Alabama, with its principal offices at 132 Export Circle, Huntsville, AL 35806, (hereinafter "Synapse"), and SMART APPLIANCE CONTROLS, INC., a corporation organized and existing under the laws of the State of Alabama and having its principal offices at 132 Export Circle, Huntsville, AL 35806, (hereinafter "SAC").

1. Synapse and A. O. SMITH CORPORATION, a corporation existing under the laws of the State of Delaware and having its principal offices at 11270 West Park Place, Milwaukee, WI 53224 (hereinafter "AOS"), are parties to that certain Development and Technology Acquisition Agreement effective October 30, 2007, as modified by that certain First Amendment dated August 11, 2008 (collectively, "the Development Agreement"), which Development Agreement provides that AOS may purchase Patents (defined below) upon exercising an option.
2. AOS has duly exercised the option to purchase the Patents.
3. Synapse has changed its name to SAC on August 31, 2007, to which Synapse and SAC acknowledge, to any extent necessary, the obligations of Synapse granted in and arising from the Development Agreement apply equally to SAC.
4. The Development Agreement provides consideration for the assignment of the Patents, and Synapse and SAC acknowledge the sufficiency of such consideration for this Assignment of Patents.
5. "Patents" means any pending patent applications and issued letters patents disclosing and/or claiming any aspect of the Controller (as defined in the Development Agreement), including a reissued patent, a patent issuing from a continuation application, divisional application or continuation-in-part application, and any corresponding foreign patent application relating thereto, including but not limited to the patent applications and patents listed on Exhibit I to this Assignment of Patents, and all other United States and foreign patent applications and patents that at any time claim priority to any of the foregoing or include a specification substantially similar to the foregoing.
6. Pursuant to their obligations under the Development Agreement, Synapse and SAC hereby assign to AOS, its lawful successors and assigns, the entire right, title, and interest in and to the Patents, free and clear of any liens, claims, or other rights of any third parties.
7. Synapse and SAC represent and warrant that Synapse and SAC have the full right to convey the interest assigned by this Assignment of Patents.

IN TESTIMONY WHEREOF, Synapse and SAC have caused its authorized representative to execute this Assignment of Patents.

Synapse, Inc.

Wade Patterson, President

Name Wade Patterson

Title President

Date 5-21-09

Smart Appliance Controls, Inc.

Wade Patterson, President

Name Wade Patterson

Title President

Date 5-21-09

State of Alabama
County of Madison)

I do hereby certify that the above-identified Assignor, personally known to me to be the same person or persons who signed the foregoing instrument, appeared before me this day and acknowledged that said instrument was signed and delivered as the free and voluntary act of the Assignor, for the uses and purposes therein set forth.

Given under my hand and seal, this 21 day of May, 2009.

Jimmy Pruitt
Notary Public

EXHIBIT 1

U.S. Patents/Applications
Assigned by Synapse, Inc. to AOS Holding Company

Application No.	Filing Date	Publication No.	Publication Date	Patent No.	Issue Date	Title
11/117,065	04-28-2005	2006/0013572	01-19-2006	7,117,825	10-10-2006	SYSTEM AND METHOD FOR PREVENTING OVERHEATING OF WATER WITHIN A WATER HEATER TANK
11/117,069	04-28-2005	2006/0013573	01-19-2006	7,099,572	08-29-2006	WATER HEATING SYSTEM AND METHOD FOR DETECTING A DRY FIRE CONDITION FOR A HEATING ELEMENT
10/772,032	02-04-2004	2004/0158361	08-12-2004	7,065,431	06-20-2006	SYSTEM AND METHOD FOR CONTROLLING TEMPERATURE OF A LIQUID RESIDING WITHIN A TANK
10/937,016	09-08-2004	2005/0029248	02-10-2005	6,989,514	01-24-2006	SYSTEM AND METHOD FOR CONTROLLING TEMPERATURE CONTROL ELEMENTS THAT ARE USED TO ALTER LIQUID TEMPERATURE
10/295,061	11-15-2002	2003/0091091	05-15-2003			SYSTEM AND METHOD FOR CONTROLLING TEMPERATURE OF A LIQUID RESIDING WITHIN A TANK
10/295,364	11-15-2002	2003/0093185	05-15-2003			SYSTEM AND METHOD FOR MONITORING TEMPERATURE CONTROL ELEMENTS THAT ARE USED FOR ALTERING TEMPERATURES OF LIQUIDS
10/298,135	11-15-2002	2003/0093186	05-15-2003			SYSTEM AND METHOD FOR CONTROLLING TEMPERATURE OF A LIQUID RESIDING WITHIN A TANK
10/300,310	11-20-2002	2004/0069768	04-15-2004			SYSTEM AND METHOD FOR CONTROLLING TEMPERATURE CONTROL ELEMENTS THAT ARE USED TO ALTER LIQUID TEMPERATURE
10/852,032	05-24-2004	2004/0225414	11-11-2004			SYSTEM AND METHOD FOR CONTROLLING TEMPERATURE OF A LIQUID RESIDING WITHIN A TANK
11/105,889	4-14-2005	2005/0231318	10-20-2005			TRIP-FREE LIMIT SWITCH AND RESET MECHANISM
11/117,068	04-28-2005	2005/0275993	12-15-2005			SYSTEM AND METHOD FOR DETECTING FAILURE OF A RELAY BASED CIRCUIT
11/201,665	08-11-2005	2006/0047870	03-02-2006			MODULAR CONTROL SYSTEM AND METHOD FOR WATER HEATERS
11/409,229	04-21-2006	2006/0190141	08-24-2006			SYSTEM AND METHOD FOR CONTROLLING TEMPERATURE OF A LIQUID RESIDING WITHIN A TANK
11/432,103	05-11-2006	2006/0257127	11-16-2006			SYSTEM AND METHOD FOR ESTIMATING AND INDICATING TEMPERATURE CHARACTERISTICS OF TEMPERATURE CONTROLLED LIQUIDS
11/543,602	10-05-2006	2007/0034169	02-15-2007			SYSTEM AND METHOD FOR PREVENTING OVERHEATING OF WATER WITHIN A WATER HEATER TANK

PATENT

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Application No.	Filing Date	Publication No.	Publication Date	Patent No.	Issue Date	Title
11/677,312	02-21-2007	2007/0210067	09-13-2007			WATER HEATING SYSTEMS AND METHODS FOR DETECTING DRY FIRE CONDITIONS
11/691,723	03-27-2007	2007/0191994	08-16-2007			SYSTEM AND METHOD FOR CONTROLLING TEMPERATURE OF A LIQUID RESIDING WITHIN A TANK
11/692,117	03-27-2007	2007/0246552	10-25-2007			WATER HEATING SYSTEMS AND METHODS
11/692,130	03-27-2007	2007/0248340	10-25-2007			WATER HEATING SYSTEMS AND METHODS
11/692,135	03-27-2007	2007/0248143	10-25-2007			WATER HEATING SYSTEMS AND METHODS
11/692,152	03-27-2007	2007/0245980	10-25-2007			WATER HEATING SYSTEMS AND METHODS
11/692,178	03-27-2007	2007/0246557	10-25-2007			WATER HEATING SYSTEM AND METHOD
11/692,179	03-27-2007	2007/0246556	10-25-2007			MODULAR CONTROL SYSTEM AND METHOD FOR WATER HEATERS
11/692,182	03-27-2007	2007/0246551	10-25-2007			TANKED WATER HEATER
11/958,227	12-17-2007					TANKED WATER HEATER
60/332,602	11-15-2001					WATER HEATING SYSTEM AND METHOD
60/353,546	01-31-2002					SYSTEM AND METHOD FOR CONTROLLING WATER TEMPERATURE WITHIN A WATER TANK
60/417,926	10-11-2002					SYSTEM AND METHOD FOR CONTROLLING WATER TEMPERATURE WITHIN A WATER TANK
60/440,659	01-16-2003					TRIP-FREE LIMIT SWITCH AND RESET MECHANISM
60/579,757	06-15-2004					SYSTEM AND METHOD FOR DETECTING FAILURE OF A RELAY-BASED CIRCUIT
60/584,401	06-30-2004					APPARATUS AND METHOD FOR FLUID TEMPERATURE CONTROL
60/604,689	08-26-2004					MODULAR CONTROL SYSTEM FOR A WATER HEATER
60/679,762	05-11-2005					SYSTEM AND METHOD FOR INDICATING AN AMOUNT OF AVAILABLE HOT WATER WITHIN A WATER HEATER
60/775,078	02-21-2006					WATER HEATING SYSTEM AND METHOD FOR DETECTING DRY FIRE CONDITIONS
60/786,326	03-27-2006					WATER HEATING SYSTEM AND METHOD
60/870,150	12-15-2006					TANKED WATER HEATER
60/908,132	03-26-2007					WATER HEATING SYSTEMS AND METHODS
60/440,659	01-16-2003					TRIP-FREE LIMIT SWITCH AND RESET MECHANISM
60/562,414	04-15-2004					TRIP-FREE LIMIT SWITCH AND RESET MECHANISM
11/105,889	04-15-2005					TRIP-FREE LIMIT SWITCH AND RESET MECHANISM
11/958,227	12-17-2007					TANKED WATER HEATER

PCT Applications
Assigned by Synapse, Inc. to AOS Holding Company

Application No.	Filing Date	International Publication No.	Publication Date	Title
PCT/US2002/036582	11-15-2002	WO03/044610	05-30-2003	CONTROLLING LIQUID TEMPERATURE BASED ON USAGE HISTORY
PCT/US2006/007093	02-28-2006	WO07/100318	09-07-2007	MODULAR CONTROL SYSTEM FOR WATER HEATERS HEATERS

Canadian Applications
Assigned by Synapse, Inc. to AOS Holding Company

Application No.	National Entry Date	PCT Filing No.	International Publication No.	Filing Date	Open to Inspection Date	Title
2,517,051				08-24-2005	02-26-2006	MODULAR CONTROL SYSTEM AND METHOD FOR WATER HEATERS
2,504,286				04-15-2005	10-15-2005	TRIP-FREE LIMIT SWITCH AND RESET MECHANISM
2,492,003	01-10-2005	PCT/US2002/036582	WO03/044610	11-15/2002		CONTROLLING LIQUID TEMPERATURE BASED ON USAGE HISTORY