

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6228479

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	GLOBE FIRE SPRINKLER CORPORATION	07/08/2019
RECEIVING PARTY DATA		
Name:	VICTAULIC COMPANY	
Street Address:	4901 KESSLERSVILLE ROAD	
City:	EASTON	
State/Country:	PENNSYLVANIA	
Postal Code:	18040	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16853208	
CORRESPONDENCE DATA		
Fax Number:		
<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>		
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Address Line 4:	PHILADELPHIA, PENNSYLVANIA 19103	
NAME OF SUBMITTER:	RONALD VENTOLA II	
SIGNATURE:	/Ronald Ventola II/	
DATE SIGNED:	07/31/2020	
Total Attachments: 16		
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Execution Copy
Attorney Docket No.: 688939

ASSIGNMENT

WHEREAS, **Globe Fire Sprinkler Corporation**, a Michigan company, having an address of 4077 Airpark Drive, Standish, MI 48658 (hereinafter generally referred to as "ASSIGNOR") is the owner of certain new and useful inventions for which patent applications have been applied for and/or Letters Patent have issued as set forth on Schedule A attached hereto.

WHEREAS, **Victaulic Company**, a New Jersey Corporation, having an address of 4901 Kesslersville Road, Easton, PA 18040 (hereinafter generally referred to as "ASSIGNEE") is desirous of acquiring said inventions, applications and/or Letters Patents as set forth on Schedule A.

NOW, THEREFORE, for good and valuable consideration, the full receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, the undersigned ASSIGNOR, hereby agrees to sell, assign, transfer and convey and by these presents does sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said inventions, applications and/or Letters Patents as described above, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above applications and/or Letters Patents and all United States and foreign Letters Patents which may be granted on said inventions including divisions, reissues and continuations; and

together with all claims for damages by reason of past infringement of said Letters Patents with the right to sue for and collect the same for its own use and behalf or for the use and behalf of its legal representatives;

said inventions, applications and/or Letters Patents to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and behalf, and for ASSIGNEE's legal representative and assigns to the full end of the term or terms for which said Letters Patents have been granted, as fully and entirely as the same would have been held by the undersigned ASSIGNOR had this assignment and sale not been made; and for the aforesaid consideration ASSIGNOR hereby covenants, agrees and undertakes to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining ASSIGNEE the Letters Patents hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNOR.

[SIGNATURE PAGE FOLLOWS]

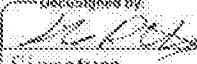
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Attorney Docket No.: 688939

[SIGNATURE PAGE TO PATENT ASSIGNMENT AGREEMENT]

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

July 8, 2019

Date

Decoded by:

Signature

Steven Worthington

Typed or Printed Name

CEO and President

Title

Execution Copy
Attorney Docket No.: 688939

SCHEDULE A

[ATTACHED]

Schedule A

CONTROL VALVE ASSEMBLY

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
15/298,758	9,795,815	US	10/20/16	10/24/17	10/20/2036	CONTROL VALVE ASSEMBLY	Granted
15/662,718	9,950,203	US	7/28/17	4/24/18	10/20/2036	CONTROL VALVE ASSEMBLY	Granted
PCT/US16/57949			10/2016		10/20/16	CONTROL VALVE ASSEMBLY	National Phase Entered
62/130,281			3/9/16		3/9/15	CONTROL VALVE ASSEMBLY	Expired
62/244,444			10/21/16		10/21/15	CONTROL VALVE ASSEMBLY	Expired

PREACTION SPRINKLER VALVE

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
2993241		Canada	1/19/18			PREACTION SPRINKLER VALVE	Pending
201680044195		China	1/26/18			PREACTION SPRINKLER VALVE	Published
16750574.2		Europe	1/25/18			PREACTION SPRINKLER VALVE	Published
201817002161		India	1/18/18			PREACTION SPRINKLER VALVE	Pending
2018-504945		Japan	1/25/18			PREACTION SPRINKLER VALVE	Pending
10-2018-7005996		Korea	2/28/18			PREACTION SPRINKLER VALVE	Pending
PCT/US16/44569		PCT	7/28/16			PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES AND FIRE	Published

PCT/US18/41968					7/13/18				PROTECTION SPRINKLER SYSTEMS		
Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	Published STATUS				
15/222,770	9,901,763	US	7/28/16	2/27/18	7/28/2036	PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES AND FIRE PROTECTION SPRINKLER SYSTEMS	Granted				
15/648,861		US	7/13/17			PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES ADAPTED FOR LONG TRAVEL, AND FIRE PROTECTION SPRINKLER SYSTEMS	Published				
15/790,321		US	10/23/17			PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES AND FIRE PROTECTION SPRINKLER SYSTEMS	Published				
62/197,927		US	7/28/15		7/28/16	PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES AND FIRE PROTECTION SPRINKLER SYSTEMS	Expired				
62/198,428		US	7/29/15		7/29/16	PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES AND FIRE PROTECTION SPRINKLER SYSTEMS	Expired				

62/267,445		US	12/15/15			12/15/16	Expired	PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES AND FIRE PROTECTION SPRINKLER SYSTEMS	Expired
Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS		
62/344,463		US	6/2/16		6/2/17	FIRE PROTECTION SYSTEMS AND METHODS FOR ATTIC/COMBUSTIBLE CONCEALED SPACES BENEATH PITCHED ROOFS	Expired		
62/304,585		US	3/7/16		3/7/17	PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES AND FIRE PROTECTION SPRINKLER SYSTEMS	Expired		

CROSS-WALL INDICATOR POST

15/188,426	9,772,047	US	6/21/16	9/26/17	6/21/2036	CROSS-WALL INDICATOR POST	Granted
Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS

MODULAR VALVE ASSEMBLY

3033520		Canada	2/8/19			MODULAR VALVE ASSEMBLY	Pending
Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS

201780062558.4		China	4/9/19			MODULAR VALVE ASSEMBLY	Pending
17839950.7		Europe	3/8/19			MODULAR VALVE ASSEMBLY	Published
201917005760		India	2/13/19			MODULAR VALVE ASSEMBLY	Published
2019-507223		Japan	2/8/19			MODULAR VALVE ASSEMBLY	Pending
10-2019-7007148		Korea	3/11/19			MODULAR VALVE ASSEMBLY	Pending
PCT/US17/21882		PCT	3/10/17			TEST IN DRAIN SYSTEM ABOVE FLOW SWITCH	National Phase Entered
15/402,840		US	1/10/17			MODULAR VALVE ASSEMBLY	Published
Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
15/874,479		US	1/18/18			MODULAR VALVE ASSEMBLY	Published
62/373,626		US	8/11/16		8/11/17	MODULAR VALVE ASSEMBLY	Expired

DRY SPRINKLER SYSTEM MANIFOLD ADAPTER

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
PCT/US18/15131		PCT	1/25/18			DRY SPRINKLER SYSTEM MANIFOLD ADAPTER	Pending
62/451,244		US	1/27/17		1/27/18	DRY SPRINKLER SYSTEM MANIFOLD ADAPTER	Expired

CONTROL VALVE ASSEMBLY WITH TEST, DRAIN AND ADJUSTABLE PRESSURE RELIEVE VALVE

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
15/862,881		US	1/5/18			CONTROL VALVE ASSEMBLY WITH TEST, DRAIN AND ADJUSTABLE PRESSURE RELIEVE VALVE	Published
62/443,326		US	1/6/17		1/6/18	CONTROL VALVE ASSEMBLY WITH TEST, DRAIN AND ADJUSTABLE PRESSURE RELIEVE VALVE	Expired

BALL VALVE WITH COLOR-CODED INDICATOR OF NORMAL OPERATING POSITION

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
15/808,289		US	11/9/17			BALL VALVE WITH COLOR-CODED INDICATOR OF NORMAL OPERATING POSITION	Published
62/420,277		US	11/10/16		11/10/17	BALL VALVE WITH COLOR-CODED INDICATOR OF NORMAL OPERATING POSITION	Expired

PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES, AND COMPRESSIVE ACTIVATION MECHANISM

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
PCT/US18/34148		PCT	5/23/18			DSD WUTH SWIVEL THREAD AND TRIGGER HAVING A LONG STROKE	Published
15/623,048		US	6/14/17			PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES, AND COMPRESSIVE	Published

STAGGERED ATTIC SPRINKLER SYSTEM

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
PCT/US19/17028			2/7/19			STAGGERED ATTIC SPRINKLER SYSTEM	Pending
16/337,763			3/28/19			FIRE PROTECTION SYSTEM FOR SLOPED COMBUSTIBLE CONCEALED SPACES	Pending
62/630,313			2/14/18		2/14/19	STAGGERED ATTIC SPRINKLER STYSTEM	Expired

FLEXIBLE DRAIN PIPE FOR FIRE SUPPRESSION SPRINKLER SYSTEMS

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
16/056,948		US	8/7/18			FLEXIBLE DRAIN PIPE FOR FIRE SUPPRESSION SPRINKLER SYSTEMS	Published
62/543,619		US	8/10/17		8/10/18	FLEXIBLE DRAIN PIPE CONDUIT FOR FIRE SUPPRESSION SPRINKLER SYSTEMS	Expired

SUPERVISORY GAS-ADJUSTED FRICTION-LOSS COEFFICIENT BASED FIRE SUPPRESSION SPRINKLER SYSTEM

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
PCT/US18/51111		PCT	9/14/18			SUPERVISORY GAS-ADJUSTED FRICTION-LOSS COEFFICIENT BASED FIRE SUPPRESSION SPRINKLER SYSTEM	Published
16/026,556		US	7/3/18			SUPERVISORY GAS-ADJUSTED FRICTION-LOSS COEFFICIENT BASED FIRE SUPPRESSION SPRINKLER SYSTEM	Published
62/559,847		US	9/18/17		9/18/18	SUPERVISORY GAS-ADJUSTED FRICTION-LOSS COEFFICIENT BASED FIRE SUPPRESSION SPRINKLER SYSTEM	Expired

BELLEVILLE SEAL FOR VALVE SEAT HAVING A TEAR DROP LAMINAR FLOW FEATURE

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
16/267,288		US	2/4/19			BELLEVILLE SEAL FOR VALVE SEAT HAVING A TEAR DROP LAMINAR FLOW FEATURE	Pending
62/625,842		US	2/2/18		2/2/19	BELLEVILLE SEAL FOR VALVE SEAT HAVING A TEAR DROP LAMINAR FLOW FEATURE	Expired

COMBINATION CONTROL AND CHECK VALVE ASSEMBLY FOR A WET PIPING SYSTEM

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
PCT/US19/12279		PCT	1/4/19			COMBINATION CONTROL AND CHECK VALVE ASSEMBLY FOR A WET PIPING SYSTEM	Pending
16/239,807		US	1/4/19			COMBINATION CONTROL AND CHECK VALVE ASSEMBLY FOR A WET PIPING SYSTEM	Pending
62/649,680		US	3/29/18		3/29/19	COMBINATION CONTROL AND CHECK VALVE ASSEMBLY FOR A WET PIPING SYSTEM	Expired

DSD WITH COMPRESSIVE ACTIVATION MECHANISM LOCATED IN WATER PIPE

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
62/782,788		US	12/20/18			DSD WITH COMPRESSIVE ACTIVATION MECHANISM LOCATED IN WATER PIPE	Pending

FIRE PROTECTION SYSTEM FOR SLOPED COMBUSTIBLE CONCEALED SPACES HAVING HIPS

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
62/858,427		US	6/7/19			FIRE PROTECTION SYSTEM FOR SLOPED COMBUSTIBLE CONCEALED SPACES HAVING HIPS	Pending

STAND ALONE FLOW SWITCH ASSEMBLY FOR FIRE SUPPRESSION SPRINKLER SYSTEMS

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
62/816,658		US	3/11/19			STAND ALONE FLOW SWITCH ASSEMBLY FOR FIRE SUPPRESSION SPRINKLER SYSTEMS	Pending

INTEGRALLY CASTED SPRINKLER HEAD/CLAMP

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
62/841,589		US	5/1/19			INTEGRALLY CASTED SPRINKLER HEAD/CLAMP	Pending

CONCEALED WINDOW SPRINKLER

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
62/841,592		US	5/1/19			CONCEALABLE WINDOW SPRINKLER	Pending

FLEXIBLE DRY SPRINKLER DEVICE WITH AUXILIARY OUTLETS

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
62/841,524		US	5/1/19			FLEXIBLE DRY SPRINKLER DEVICE WITH AUXILIARY OUTLETS	Pending

ACTIVATOR OF PILOT TYPE FIRE PROTECTION SYSTEMS AND SYSTEMS USING SAME

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
16/047,306		US	7/27/18			ACTIVATOR OF PILOT TYPE FIRE PROTECTION SYSTEMS AND SYSTEMS USING SAME	Pending

62/047,306		US	7/28/17		7/28/18	ACTIVATOR OF PILOT TYPE FIRE PROTECTION SYSTEMS AND SYSTEMS USING SAME	Expired
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DIFFERENTIAL FLOW DETECTOR FOR FIREFIGHTING SYSTEMS

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
16/045,686		US	7/25/18			DIFFERENTIAL FLOW DETECTOR FOR FIREFIGHTING SYSTEMS	Pending
62/538,399		US	7/28/17		7/28/18	DIFFERENTIAL FLOW DETECTOR FOR FIREFIGHTING SYSTEMS	Expired

VALVE FOR FIRE PROTECTION SYSTEMS AND METHODS OF CONTROL THEREFORE

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
201817017545		IN	5/9/18			VALVE FOR FIRE PROTECTION SYSTEMS AND METHOD OF CONTROL THEREFORE	Pending
201680067761.6		CN	5/18/19			VALVE FOR FIRE PROTECTION SYSTEMS AND METHOD OF CONTROL THEREFORE	Pending
PCT/US16/61054		PCT	11/19/16			VALVE FOR FIRE PROTECTION SYSTEMS AND METHOD OF CONTROL THEREFORE	National Phase Entered
15/344,737		US	11/7/16			VALVE FOR FIRE PROTECTION SYSTEMS AND METHOD OF CONTROL THEREFORE	Abandoned

16866866.3		EP	4/15/18			VALVE FOR FIRE PROTECTION SYSTEMS AND METHOD OF CONTROL THEREFORE	Abandoned
62/257,486		US	11/19/15		11/19/16	VALVE FOR FIRE PROTECTION SYSTEMS AND METHOD OF CONTROL THEREFORE	Expired

FIRE PROTECTION SYSTEMS AND METHODS FOR ATTIC/COMBUSTIBLE CONCEALED SPACES BENEATH PITCHED ROOFS USING PREACTION SPRINKLER VALVE ASSEMBLIES AND RELATED DRY SPRINKLER DEVICES

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
PCT/US2016/066979		PCT				FIRE PROTECTION SYSTEMS AND METHODS FOR ATTIC/COMBUSTIBLE CONCEALED SPACES BENEATH PITCHED ROOFS USING PREACTION SPRINKLER VALVE ASSEMBLIES AND RELATED DRY SPRINKLER DEVICES	Pending
US15380605A		US				FIRE PROTECTION SYSTEMS AND METHODS FOR ATTIC/COMBUSTIBLE CONCEALED SPACES BENEATH PITCHED ROOFS USING PREACTION SPRINKLER VALVE ASSEMBLIES AND RELATED DRY SPRINKLER DEVICES	Abandoned

PILOT ACTUATORS

Application Number	Patent Number	Country	Filed Date	Issue Date	Expiration Date	TITLE	STATUS
PCT/US2017/051235		PCT				PILOT ACTUATOR FOR DELUGE AND PRE-ACTION FIRE PROTECTION SYSTEMS	Pending
PCT/US2017/051230		PCT				PILOT ACTUATOR FOR DRY-PIPE TYPE FIREFIGHTING SYSTEM	Pending