

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MANUEL R. SILVA JR.	11/29/2017
KENNETH ROBERT BROWN	06/07/2017
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17893516
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DATE SIGNED:	08/23/2022
Total Attachments: 4	
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Assignment of Patent Application(s) & Letters Patent

WHEREAS, we, **Manuel R. Silva, Jr.** having a place of residence at **74 Chicory Lane, Cranston, RI 02921**, **Bernhard Abels** having a place of residence at **11660 Coe Springs Ridge, Tallahassee, FL 32310**, and **Kenneth Robert Brown** having a place of residence at **15666 Sugaridge Court, Chesterfield, MO 63017** have invented certain new and useful improvements described in:

International Patent Application No. **PCT/US16/35579** filed **June 2, 2016**, entitled

AN UPRIGHT FIRE PROTECTION SPRINKLER

which claims priority to U.S. Provisional Patent Application No. **62/170053** filed on **June 2, 2015** and U.S. Provisional Application No. **62/170048** filed on **June 2, 2015**;

WHEREAS, **TYCO FIRE PRODUCTS LP** (hereinafter referred to as "Assignee"), having a place of business at: **1400 Pennbrook Parkway, Lansdale, Pennsylvania 19446**, is desirous of acquiring the full and exclusive right, title and interest in and to the invention, the application(s), and any and all Letters Patent or similar legal protection, to be obtained therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, I(we), by these presents do sell, assign and transfer unto said Assignee, the full and exclusive right in and to said invention in the United States and its territorial possessions and in any and all foreign countries, and the entire right, title and interest in and to the above-identified application(s), any and all foreign or domestic application(s) related or claiming priority to said application(s), any and all Letters Patent which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, continuations, substitutions, extensions, renewals and reissues thereof.

I(we) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and in any and all foreign countries to issue an and all of said Letters Patent, when granted, to said Assignee as the assignee of my(our) entire right, title and interest in and to the same, for the sole use and behalf of said Assignee and said Assignee's successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by us had this Assignment and sale not been made.

Further, I(we) agree that I(we) will communicate to said Assignee or said Assignee's representative any facts known to me(us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said Assignee, make all rightful oaths, and generally, do everything possible to aid said Assignee, and said Assignee's successors and assigns, to obtain and enforce proper protection for said Invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) Assignee or said Assignee's representative, the power to insert on this Assignment any further identification, including the application number(s) and filing date, which 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.

Date: 29 Nov 2017


Manuel R. Silva, Jr.

STATE OF RHODE ISLAND)
) SS.
COUNTY OF PROVIDENCE)

Sworn and subscribed before me this 29th day of November, 2017

Notary Public: Efrosyni Iosiphidis

My Commission Expires: 10/3/2021

Names of additional inventors attached? ☒ yes ☐ no

The undersigned hereby grant(s) Assignee or said Assignee's representative, the power to insert on this Assignment any further identification, including the application number(s) and filing date, which 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.

Date: _____
Bernhard Abels

State of _____)
) SS:
County of _____)

Before me personally appeared said Bernhard Abels and acknowledged the foregoing instrument to be his free act and deed this ____ day of _____, _____.

Seal _____
Notary Public

Names of additional inventors attached? ☒ yes ☐ no

The undersigned hereby grant(s) Assignee or said Assignee's representative, the power to insert on this Assignment any further identification, including the application number(s) and filing date, which 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.

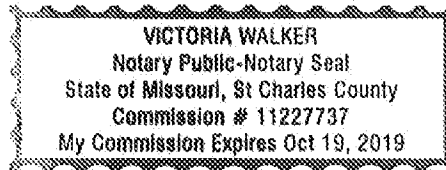
Date: 6-7-17

Kenneth Robert Brown

State of Missouri)
) SS:
 County of St Louis)

Before me personally appeared said Kenneth Robert Brown and acknowledged the foregoing instrument to be his free act and deed this 7th day of June, 2017.

Seal Victoria Walker
 Notary Public



Names of additional inventors attached? [] yes [x] no