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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DFC-5327-01-US
		Application Number	
Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor	1				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Casey	S.	Weaver		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Carmel	State/Province	IN	Country of Residence	US
Mailing Address of Inventor:					
Address 1	1475 Stonemill Circle S.				
Address 2					
City	Carmel	State/Province	IN		
Postal Code	46032	Country	US		
Inventor	2				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Martin	Jennings	Kimbell		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Wauconda	State/Province	IL	Country of Residence	US
Mailing Address of Inventor:					
Address 1	1890 Apple Valley Drive				
Address 2					
City	Wauconda	State/Province	IL		
Postal Code	60084	Country	US		
Inventor	3				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Alisha		Buescher		
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DFC-5327-01-US
		Application Number	
Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		

City	Jamestown	State/Province	IN	Country of Residence	US
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Mailing Address of Inventor:

Address 1	8280 W 200 S				
Address 2					
City	Jamestown	State/Province	IN		
Postal Code	46147	Country i	US		
Inventor	4				Remove
Legal Name					

Prefix	Given Name	Middle Name	Family Name	Suffix
	Gerald	R.	Hayes	

Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service

City	Lebanon	State/Province	IN	Country of Residence	US
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Mailing Address of Inventor:

Address 1	3020 E 400 S				
Address 2					
City	Lebanon	State/Province	IN		
Postal Code	46052	Country i	US		

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.**Correspondence Information:**Enter either Customer Number or complete the Correspondence Information section below.
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Customer Number	79958		
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Application Information:

Title of the Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		
Attorney Docket Number	DFC-5327-01-US	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	11	Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DFC-5327-01-US
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Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	79958		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Claims benefit of provisional	62490008	2017-04-25
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DFC-5327-01-US
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Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)	Remove

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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DFC-5327-01-US
		Application Number	
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Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

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B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

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☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DFC-5327-01-US
		Application Number	
Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant	1		Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
Assignee	Legal Representative under 35 U.S.C. 117		Joint Inventor
☒ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	Delta Faucet Company		
Mailing Address Information For Applicant:			
Address 1	55 East 111th Street		
Address 2			
City	Indianapolis	State/Province	IN
Country	US	Postal Code	46280
Phone Number		Fax Number	
Email Address			
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Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
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Address 2				
City		State/Province		
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This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Douglas A. Yerkeson/		Date (YYYY-MM-DD)	2018-04-20	
First Name	Douglas	Last Name	Yerkeson	Registration Number	39882
Additional Signature may be generated within this form by selecting the Add button. Add					

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	DFC-5327-01-US
		Application Number	
Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

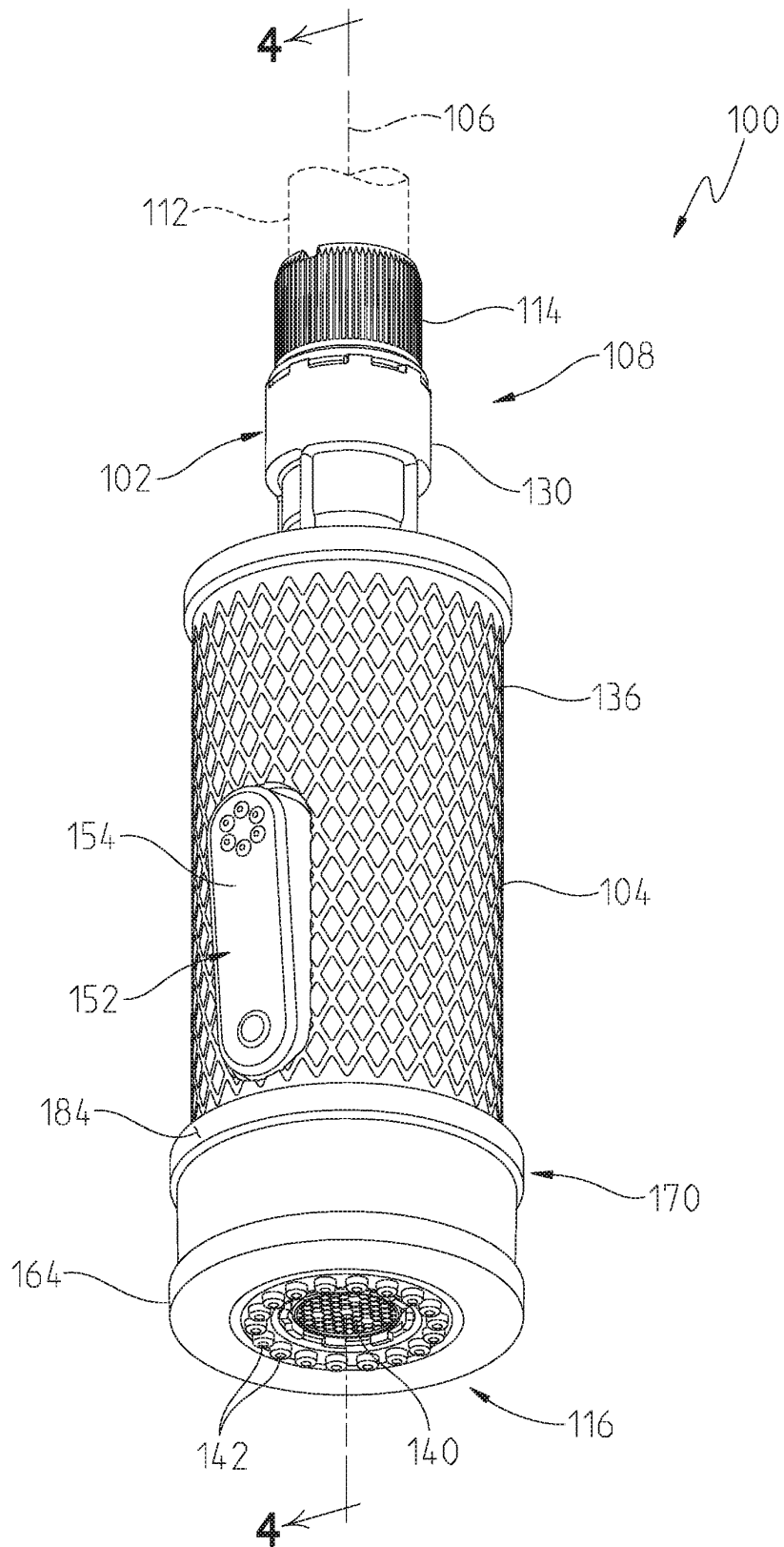
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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Fig. 1



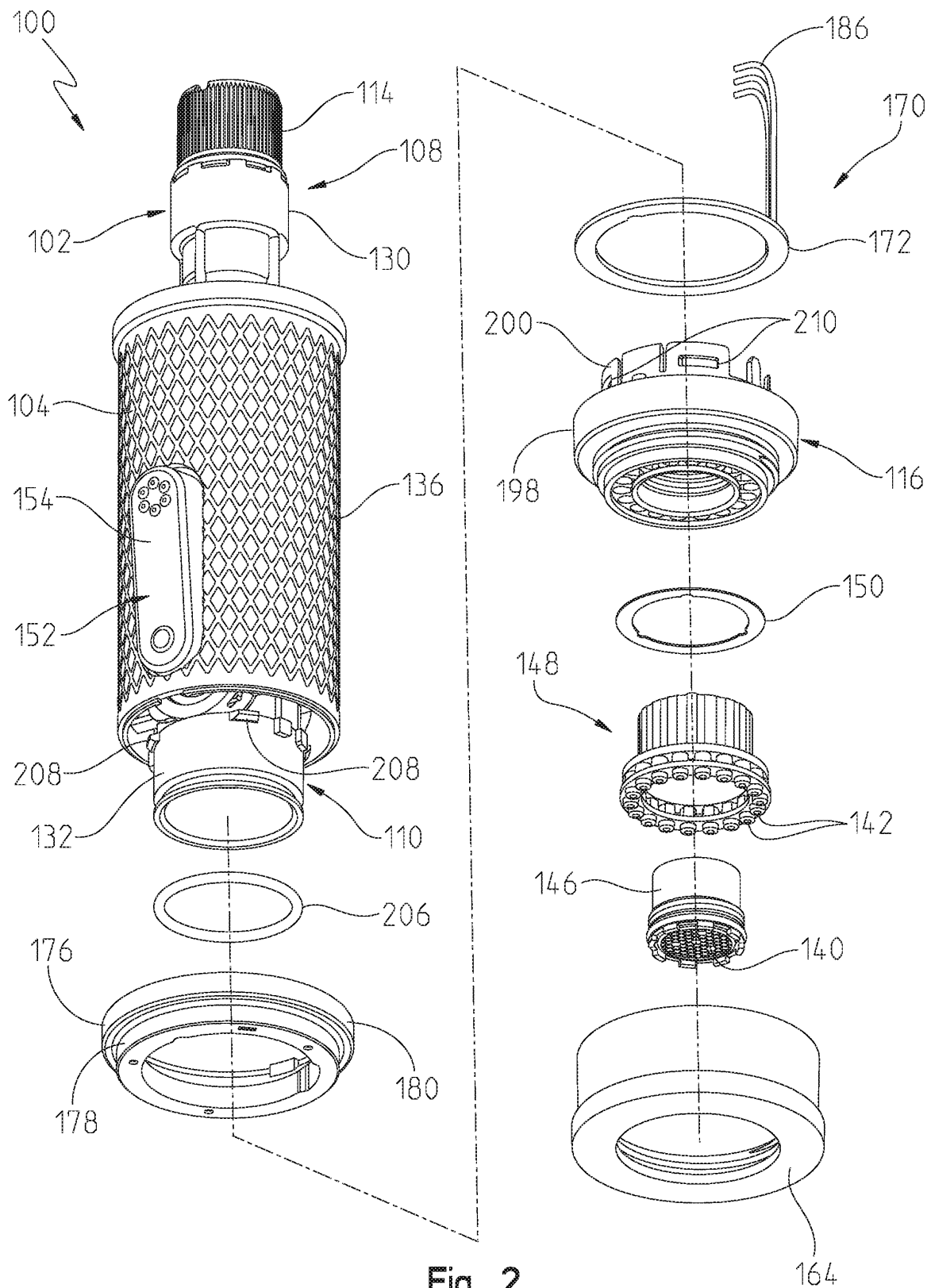


Fig. 2

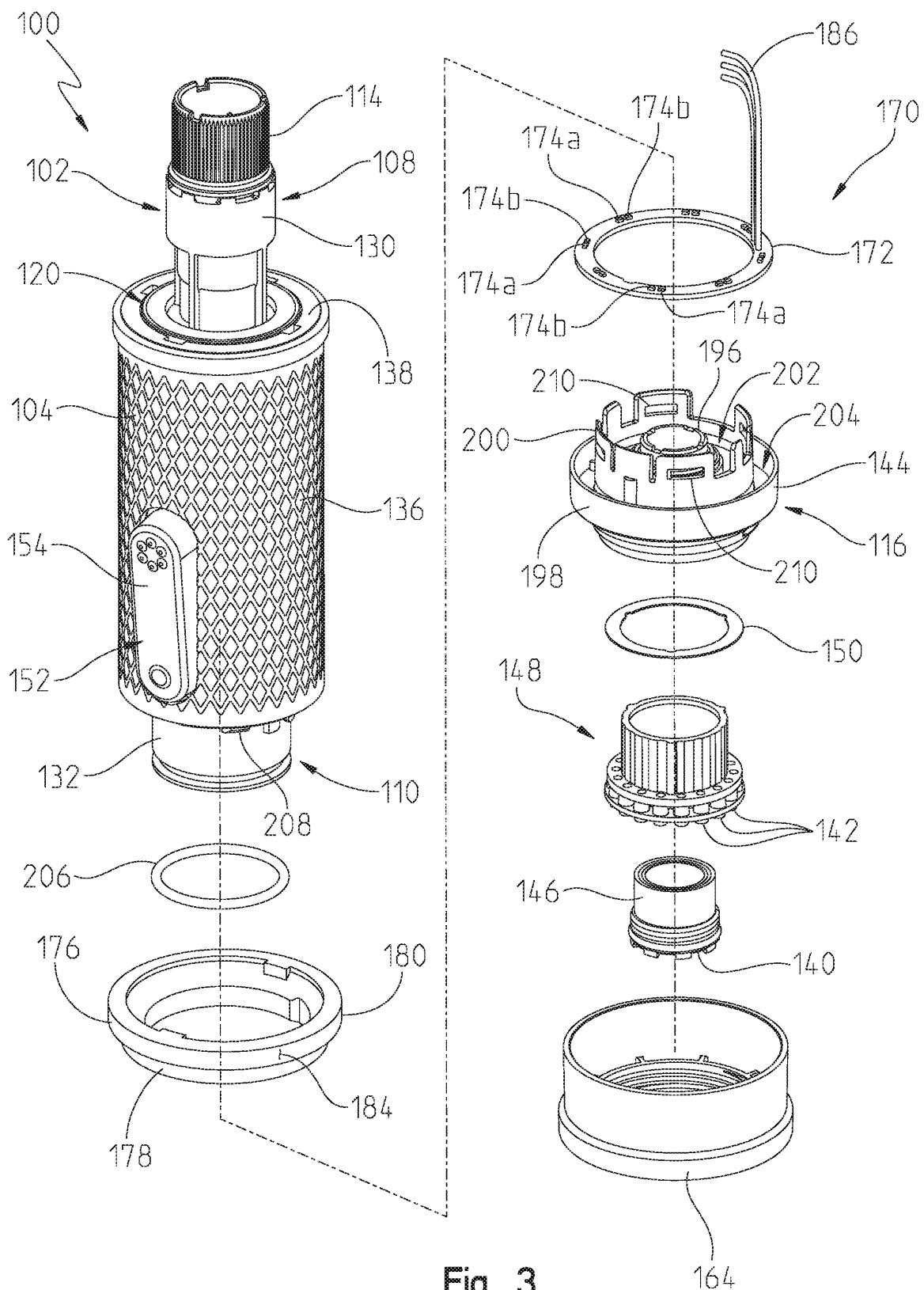
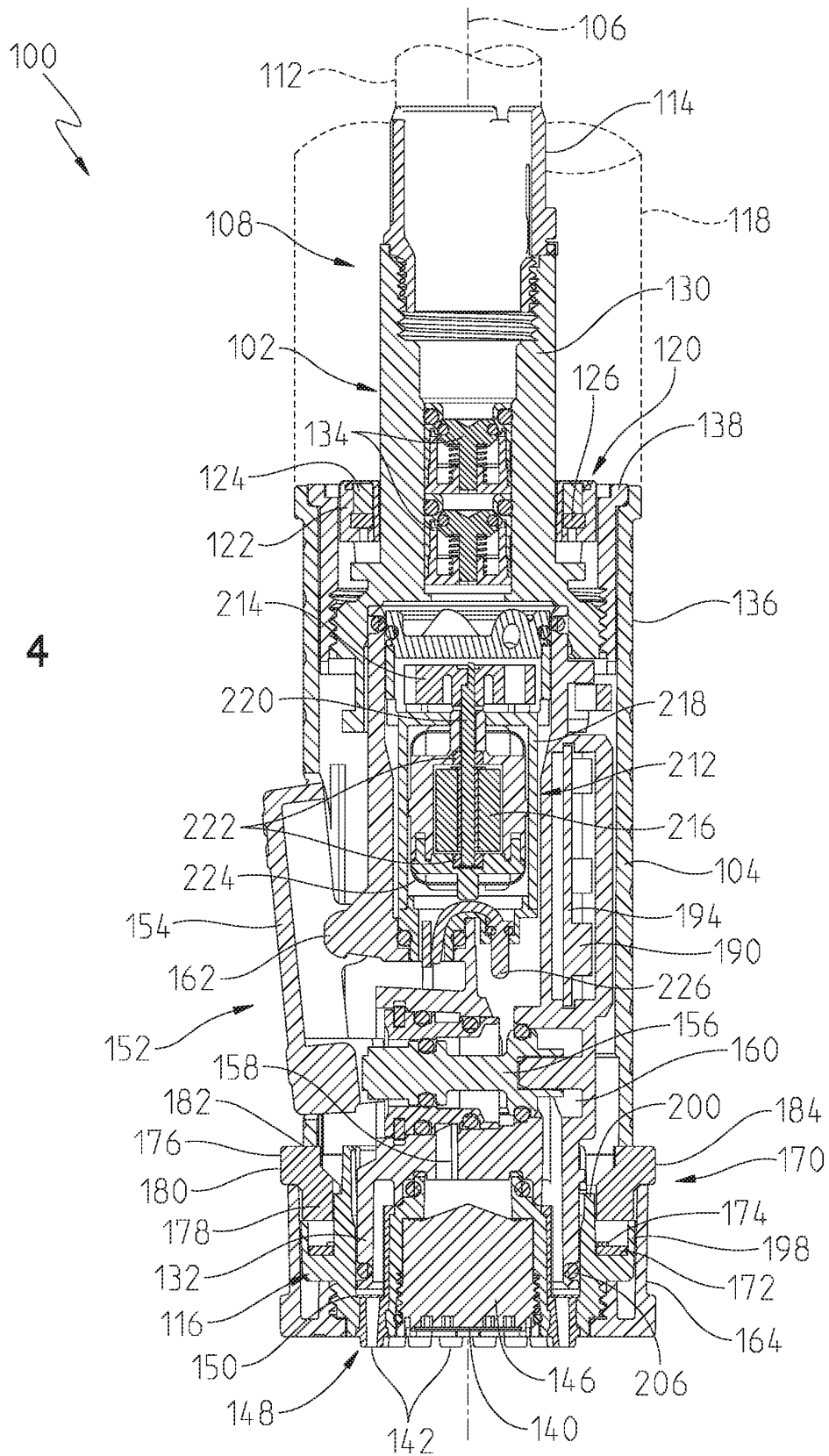


Fig. 3

Fig. 4



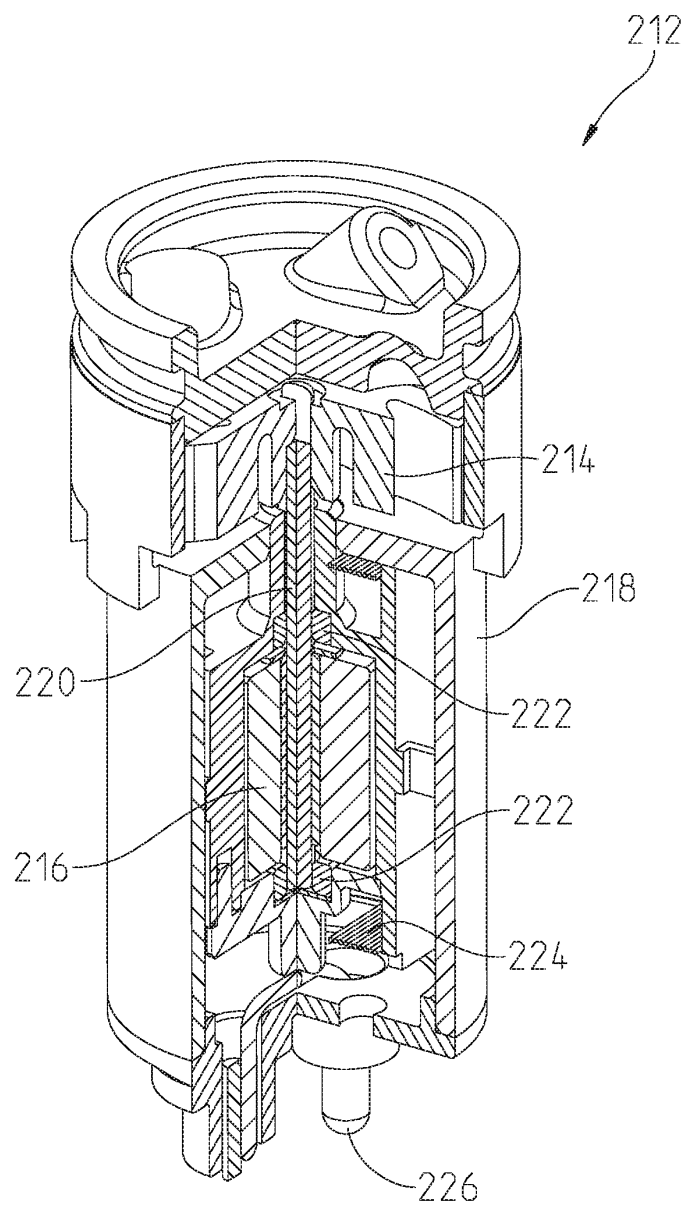


Fig. 5

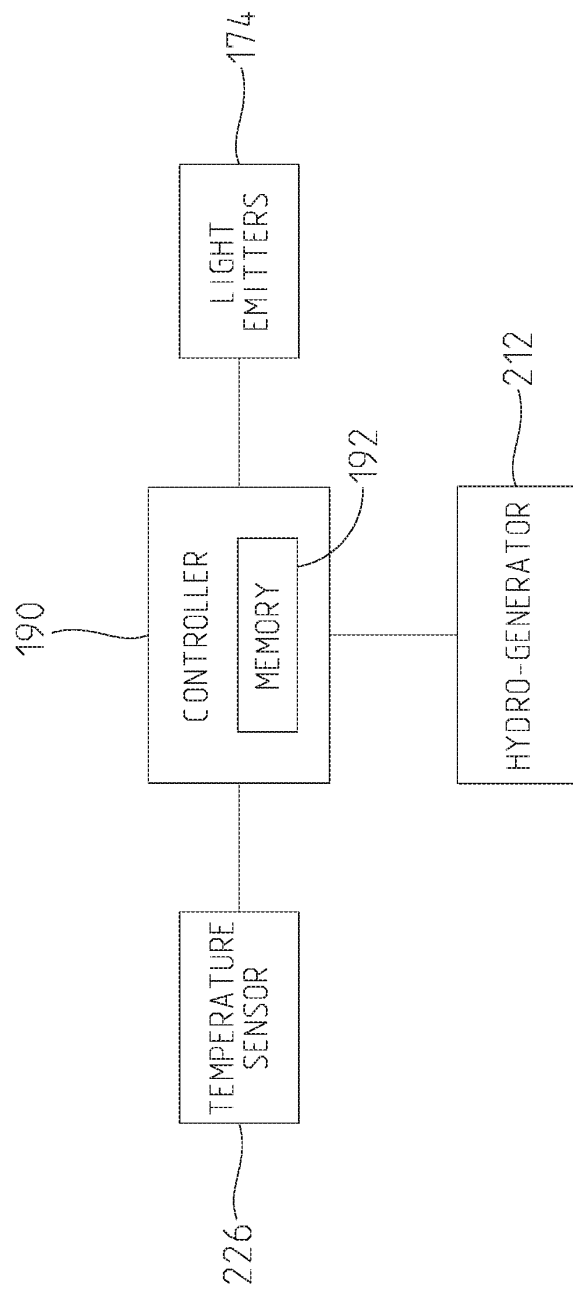


Fig. 6

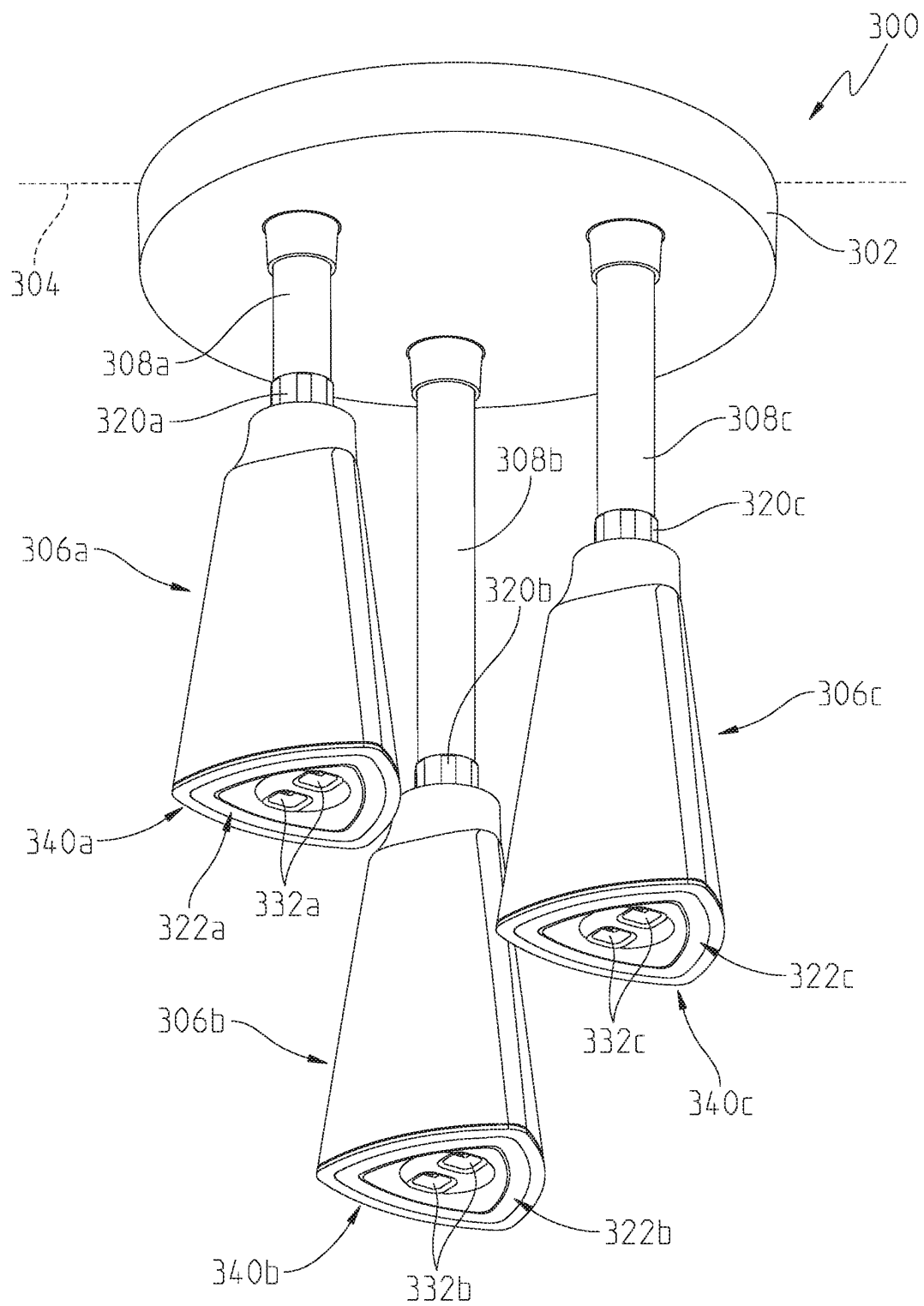


Fig. 7

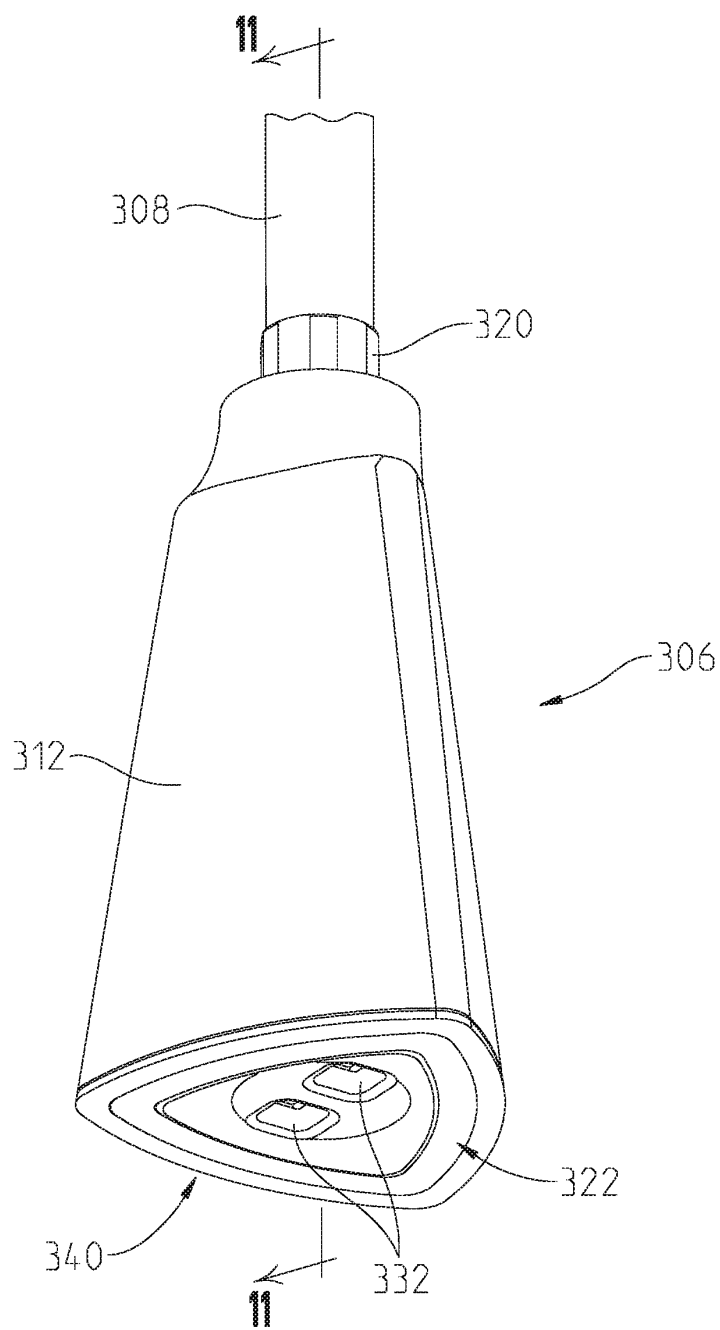


Fig. 8

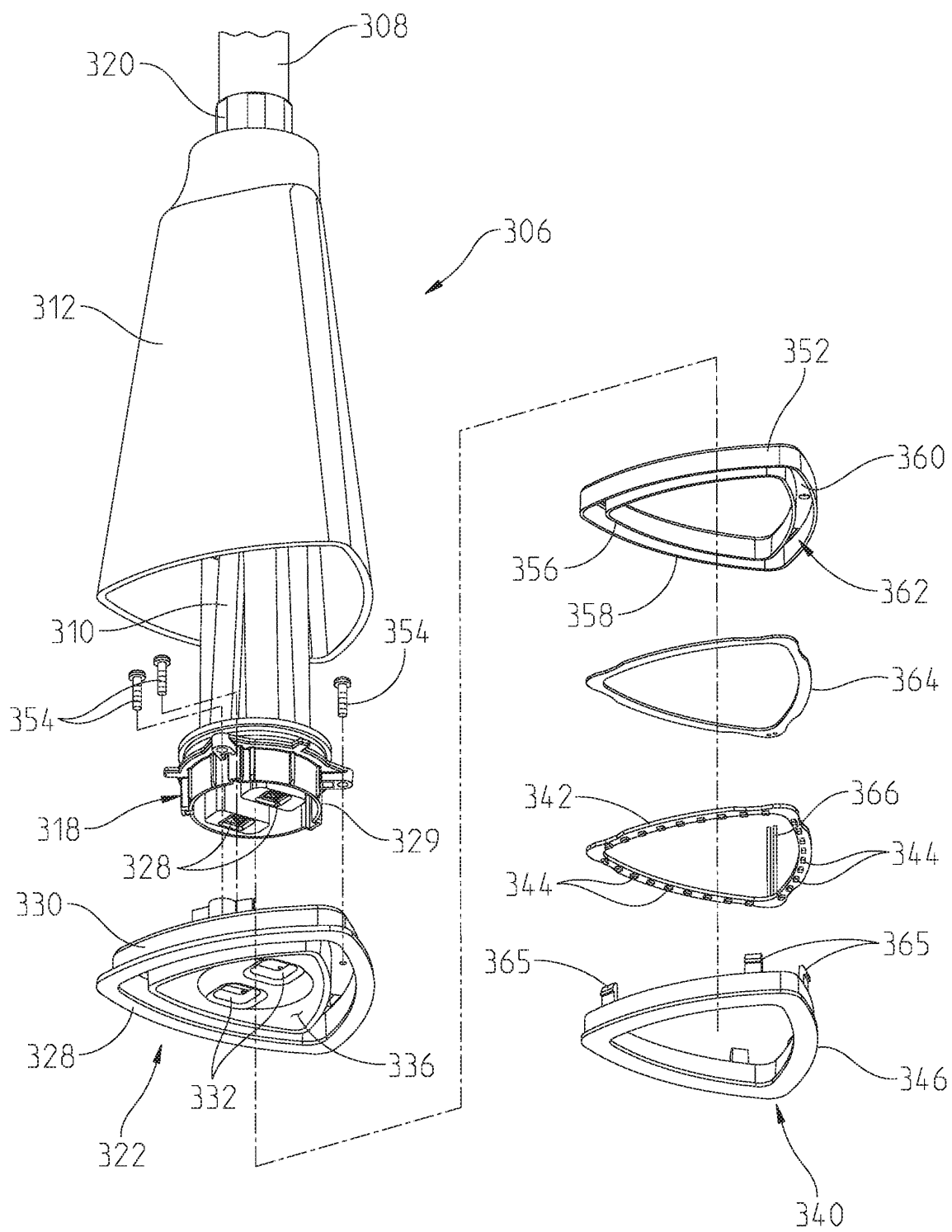


Fig. 9

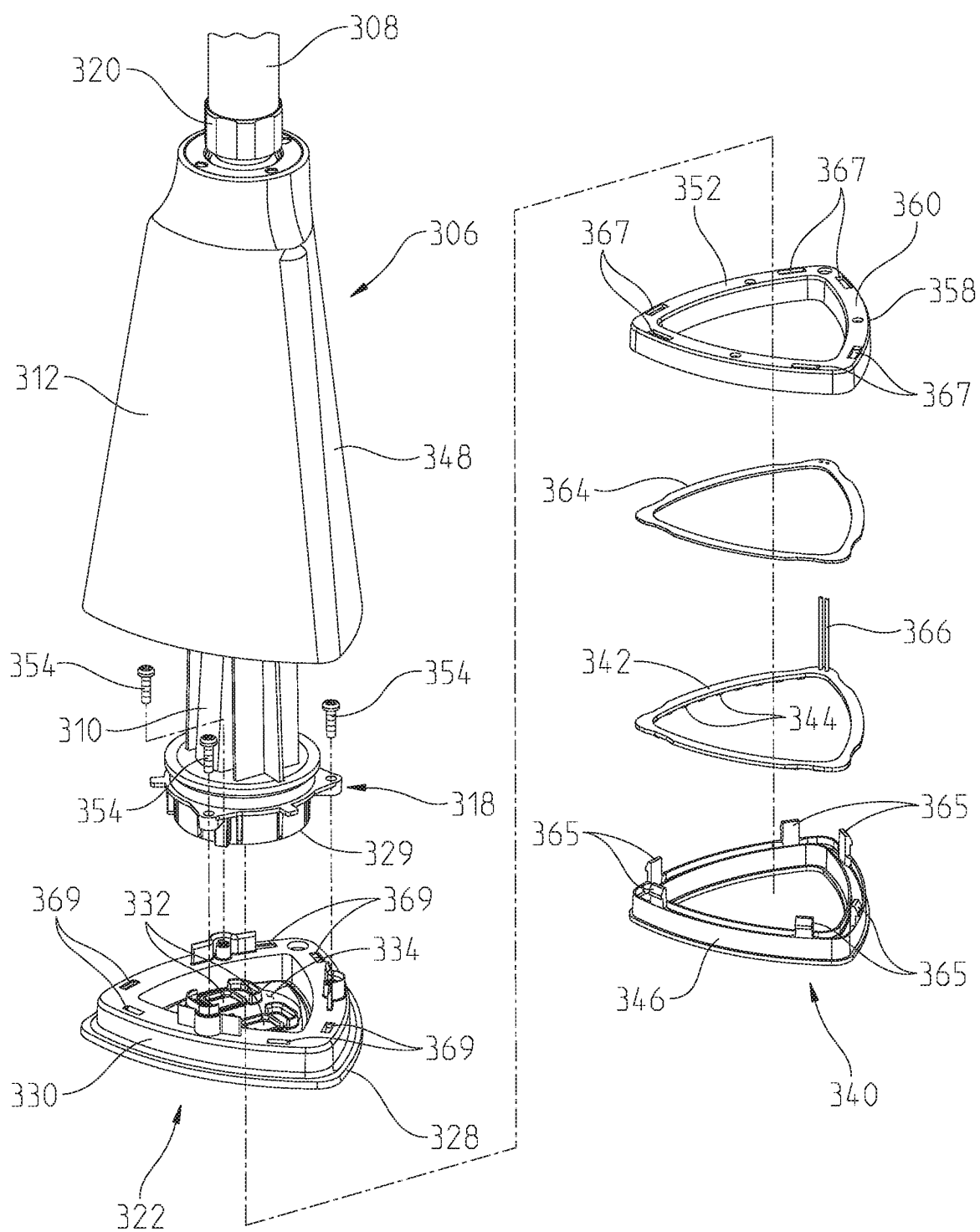
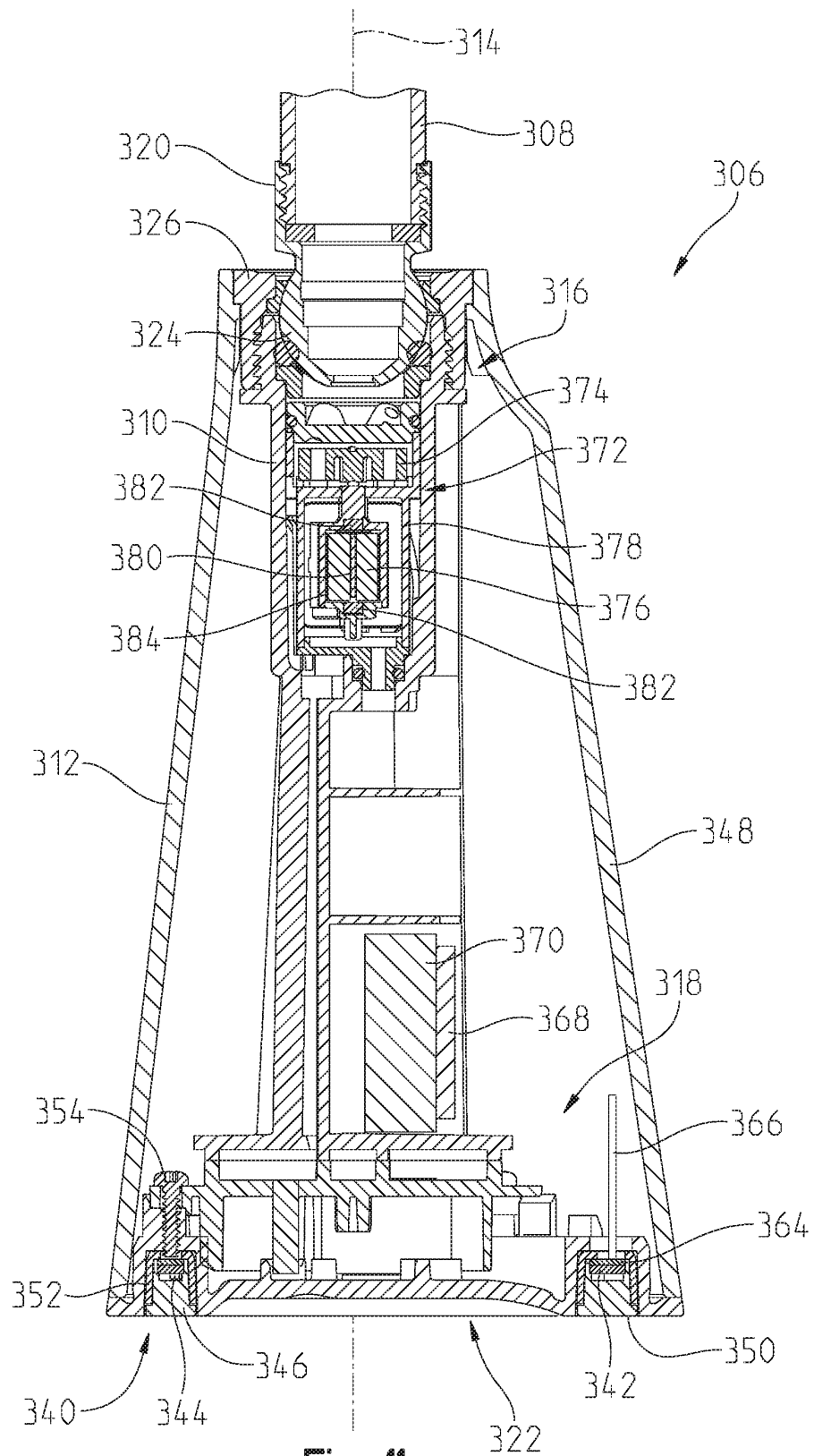


Fig. 10



PATENT APPLICATION

of

Casey S. Weaver
Martin Jennings Kimbell
Alisha Buescher
and
Gerald R. Hayes

for

ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS

Attorney Docket DFC-5327-01-US-E
(115-5327-U)

ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUSCross-Reference to Related Application

[0001] This application claims priority to U.S. Provisional Patent Application, Serial No. 62/490,008, filed April 25, 2017, the disclosure of which is expressly incorporated herein by reference.

Background and Summary of the Disclosure

[0002] The present invention relates to fluid delivery devices and, more particularly, to an illumination device for a sprayhead.

[0003] Illumination devices associated with fluid delivery devices are known. Such illumination devices may include indicator lights for providing a visual indication of a status or a condition of fluid delivery device and/or water flowing from the fluid delivery device, and nightlights associated with lavatory faucets. Such illumination devices typically include a single light source, or a plurality of light sources providing for discrete areas of illumination (i.e. “hot spots”).

[0004] The present disclosure provides for an illumination device associated with a sprayhead that provides a light pipe illuminated by at least one light emitter. Illustratively, the sprayhead may comprise a pull-down sprayhead configured to be releasably coupled to a delivery spout of a faucet, or a pendant showerhead configured to be suspended downwardly from a ceiling in a shower stall.

[0005] According to an illustrative embodiment of the present disclosure, a sprayhead includes a housing defining a longitudinal axis, a waterway received within the housing, a sprayface fluidly coupled to the waterway and supporting a water outlet, and an illumination device supported by the housing. The illumination device includes a substrate, a plurality of light emitters supported by the substrate, and a translucent light pipe defining a closed loop to diffuse light from the light emitters outwardly away from the housing. A hydro-generator may be in fluid communication with the waterway to provide electricity to the illumination device.

[0006] According to a further illustrative embodiment of the present disclosure, a pull-down sprayhead for a faucet includes a housing defining a longitudinal axis extending between a proximal end and a distal end, a waterway received within the housing, a sprayface fluidly coupled to the waterway and defining a water outlet, and an illumination device supported by the housing. The illumination device includes a substrate, a plurality of light emitters supported by the substrate, and a translucent light pipe including an outer illumination surface extending perpendicular to the longitudinal axis of the housing. The translucent light pipe defines a closed loop to diffuse light outwardly from the light emitters outwardly to the outer illumination surface.

[0007] According to another illustrative embodiment of the present disclosure, a pendant showerhead includes a housing defining a longitudinal axis, a waterway received within the housing, a sprayface fluidly coupled to the waterway and including a water outlet, and an illumination device supported by the sprayface. The illumination device includes a substrate, a plurality of light emitters supported by the substrate, and a translucent light pipe defining a closed loop surrounding the water outlet to diffuse light from the light emitters outwardly in a direction parallel to the longitudinal axis.

[0008] Additional features and advantages of the present invention will become apparent to those skilled in the art upon consideration of the following detailed description of the illustrative embodiment exemplifying the best mode of carrying out the invention as presently perceived.

Brief Description of Drawings

[0009] The detailed description of the drawings particularly refers to the accompanying figures, in which:

[0010] FIG. 1 is a perspective view of an illustrative sprayhead including an illumination device of the present disclosure;

[0011] FIG. 2 is an top exploded perspective view of the illustrative sprayhead of FIG. 1;

[0012] FIG. 3 is a bottom exploded perspective view of the illustrative sprayhead of FIG. 1;

- [0013] FIG. 4 is a cross-sectional view taken along line 4-4 of FIG. 1;
- [0014] FIG. 5 is a perspective view, in partial cross-section, of the hydro-generator of the illustrative sprayhead of FIG. 1;
- [0015] FIG. 6 is a block diagram of various components of the illustrative sprayhead of FIG. 1;
- [0016] FIG. 7 is a perspective view of an illustrative pendant showerhead assembly of the present disclosure;
- [0017] FIG. 8 is a perspective view of an illustrative pendant showerhead of FIG. 7;
- [0018] FIG. 9 is a bottom exploded perspective view of the illustrative pendant showerhead of FIG. 8;
- [0019] FIG. 10 is a top exploded perspective view of the illustrative pendant showerhead of FIG. 8; and
- [0020] FIG. 11 is a cross-sectional view taken along line 11-11 of FIG. 8.

Detailed Description of the Drawings

[0021] For the purposes of promoting an understanding of the principles of the present disclosure, reference will now be made to the embodiments illustrated in the drawings, which are described herein. The embodiments disclosed herein are not intended to be exhaustive or to limit the invention to the precise form disclosed. Rather, the embodiments are chosen and described so that others skilled in the art may utilize their teachings. Therefore, no limitation of the scope of the claimed invention is thereby intended. The present invention includes any alterations and further modifications of the illustrated devices and described methods and further applications of the principles of the invention which would normally occur to one skilled in the art to which the invention relates.

[0022] Referring initially to FIGS. 1-2, an illustrative embodiment fluid delivery device is shown in the form of a pull-down sprayhead or faucet wand 100. The illustrative sprayhead 100 includes a waterway 102 received within an outer shell or housing 104, and extending along a longitudinal axis 106 between an inlet or proximal end 108 and an outlet or distal end 110. A

hose 112 is fluidly coupled to the inlet end 108 of the waterway 102 by a conventional fluid connector 114, and a sprayface 116 is fluidly coupled to the outlet end 110 of the waterway 102.

[0023] The hose 112 is illustratively formed of a flexible polymer (e.g., cross-linked polyethylene (PEX)) for being slidably received within a delivery spout 118 of a faucet (FIG. 4). More particularly, the faucet wand 100 may be removably coupled to an outlet of the delivery spout 118 in a conventional manner. The sprayhead 100 illustratively includes a coupler 120 for releasably coupling the sprayhead 100 to the outlet of the delivery spout 118. The coupler 120 illustratively includes a housing 122 overmolded around a magnet 124 and a backing plate 126. As is known, the magnet 124 is configured to releasably couple with a magnetically attractive material (not shown) supported by the delivery spout 118.

[0024] The waterway 102 illustratively includes an upper or proximal portion 130 defining the inlet end 108, and a lower or distal portion 132 defining the outlet end 110. Both proximal and distal portions 130 and 132 of the waterway 102 may be formed of a polymer, such as polyamide. Check valves 134 may be received within the proximal portion 130 of the waterway 102 to prevent the backflow of water from the sprayhead 100 into the hose 112 (FIG. 4).

[0025] The housing 104 illustratively includes a cylindrical outer housing wall 136 receiving the waterway 102 and coaxially aligned with the longitudinal axis 106. Illustratively, the housing 104 may be formed of a metal or a metal plated polymer, such as acrylonitrile butadiene styrene (ABS). A nut 138 may threadably engage with a distal end of the proximal portion 130 of the waterway 102 to secure the waterway 102 from moving axially in a distal direction within the housing 104.

[0026] The sprayface 116 illustratively includes a stream outlet 140 and a spray outlet 142. More particularly, the sprayface 116 includes a body 144 supporting a conventional aerator 146 defining the stream outlet 140, and a nozzle assembly 148 defining the spray outlet 142. An annular filter or screen is illustratively supported by the sprayface 116 upstream from the nozzle assembly 148.

[0027] A diverter valve assembly 152 may be fluidly coupled to the waterway 102 to illustratively alternate fluid communication between the inlet end 108 of the waterway 102 and

the stream outlet 140 (e.g., aerator 146) and the spray outlet 142 (i.e., nozzle assembly 148). (FIG. 4) A user interface, illustratively a rocker arm 154, is configured to move a piston 156 and thereby toggle flow between a first passageway 158 in fluid connection with the stream outlet 140 and a second passageway 160 in fluid connection with the spray outlet 142. More particularly, the rocker arm 154 is configured to pivot about a protrusion 162 in response to user input which, in turn, causes axial movement of the piston 156.

[0028] A cap 164 may threadably engage with a distal end of the sprayface body 144 to secure the waterway 102 and the sprayface body 144 from moving axially in a proximal direction within the housing 104. As such, the nut 138 and the cap 164 cooperate with the outer wall 136 of the housing 104 to secure the waterway 102, the sprayface 116 and associated components relative to the housing 104.

[0029] A light assembly or illumination device 170 is supported by the housing 104 and is configured to direct light radially outwardly relative to the longitudinal axis 106. The illumination device 170 illustratively includes a substrate 172 supporting a plurality of light emitters 174. A translucent light pipe or diffuser 176 defines a closed loop to diffuse light outwardly from the light emitters 174.

[0030] The light pipe 176 is illustratively formed of a translucent material (e.g., a polymer or acrylic) and extends laterally outwardly from the outer wall 136 of the housing 104. More particularly, the light pipe 176 is positioned longitudinally intermediate the outer wall 136 of the housing 104 and the cap 164. Illustratively, the light pipe 176 includes an annular ring configured to transmit light radially outwardly. The annular ring illustratively includes an annular distal portion 178 and an annular proximal portion 180. The distal portion 178 extends parallel to the longitudinal axis 106 and is configured to transmit light from the light emitters 174 in an axial direction. The proximal portion 180 extends radially outwardly from the distal portion 178 within a gap or opening 182 between the housing 104 and the cap 164 for transmitting light radially toward an outer illumination surface 184. The outer illumination surface 184 defines a closed loop and is positioned radially outside of the outer wall 136 of the housing 104.

[0031] The light emitters 174 illustratively comprise a plurality of light emitting diodes (LEDs) circumferentially spaced on the substrate 172. Illustratively, the substrate 172 comprises

a printed circuit board (e.g., a glass reinforced epoxy laminate sheet) including a plurality of electrically conductive traces (e.g., formed of copper) supported thereon for coupling the LEDs to wires 186. The wires 186 may be in electrical communication with a controller 190 including a memory 192 supported on a printed circuit board 194 (FIGS. 4 and 6).

[0032] The body 144 of the sprayface 116 illustratively includes concentric inner, outer and intermediate walls 196, 198, 200. An inner annular space 202 is defined intermediate the inner wall 196 and the intermediate wall 200, and an outer annular space 204 is defined intermediate the outer wall 198 and the intermediate wall 200. The distal end of the distal portion 132 of the waterway 102 is illustratively received within the inner annular space 202. An o-ring 206 provides a seal between the waterway 102 and the intermediate wall 200 of the sprayface 116. Tabs 208 on the distal portion 132 of the waterway 102 are received in openings 210 in the intermediate wall 200 of the sprayface 116 couple the sprayface 116 to the waterway 102.

[0033] The substrate 172 of the illumination device 170 is received within the outer annular space 204 of the sprayface body 144, with the light emitters 174 facing a proximal direction. The distal portion 178 of the light pipe 176 is likewise received within the outer annular space 204 in distal spaced relation to the light emitters 174.

[0034] A power source is in electrical communication with the light emitters 174. Illustratively, the power source includes a hydro-generator 212 fluidly coupled to the waterway 102. More particularly, an impeller 214 of the hydro-generator 212 is positioned within the water flow path defined by the distal portion 132 of the waterway 102. Magnets 216 are received within a housing 218 and coupled to the impeller 214 via a shaft 220 rotatably supported by bearings 222. As such, rotation of the impeller 214 by water flow through the waterway 102 causes similar rotation of the magnets 216. Coils 224 are supported within the housing 218 and proximate the magnets 216. As is known, rotation of the magnets 216 relative to the coils 224 generates electricity which is then provided to the light emitters 174.

[0035] A temperature sensor 226 is provided within the flow passageway of the distal portion 132 of the waterway 102. Illustratively, the temperature sensor 226 may comprise a negative temperature coefficient (NTC) thermistor in electrical communication with the controller 190.

[0036] The light emitting diodes 174 may each be configured to emit visible light of the same color (e.g., white LEDs), or may be configured to emit visible light of different colors (blue/red bi-color LEDs). Alternatively, different light emitting diodes 174 may be configured to emit different colors (e.g., alternating blue and red LEDs). In the illustrative embodiment, sixteen (16) different LEDs 174 are supported on the substrate in eight circumferentially spaced groups of two LEDs 174a, 174b. Illustratively, the first LEDs 174a are blue color LEDs, and the second LEDs 174b are red color LEDs. As may be appreciated, the separate blue and red color LEDs 174a, 174b may be replaced red/blue bi-color LEDs. Additionally, the number and relative positioning of the LEDs 174 may vary.

[0037] In operation of an illustrative embodiment, light emitters 174a generate light of a first color (e.g., blue) when the signal from the temperature sensor 226 detects a first water temperature, and light emitters 174b generate light of a second color (e.g., red) when the signal from the temperature sensor 226 detects a second water temperature greater than the first water temperature. Illustratively, the first and second light emitters 174a, 174b blend the light of the first color and the light of the second color and generate light of a third color when the signal from the temperature sensor 226 detects a third water temperature between the first water temperature and the second water temperature.

[0038] Illustratively, when water flows through the faucet sprayhead 100, the hydro-generator 212 creates power required for electrical components, including the temperature sensor 226 to detect the water temperature dispensed from the sprayface 116, and to display corresponding colored light from the light emitters 174.

[0039] In a further illustrative embodiment of the present disclosure as shown in FIGS. 7 and 8, a pendent showerhead assembly 300 includes a base 302 configured to be fixed to a ceiling 304 of a shower stall and supporting a plurality pendent showerheads 306. While three pendant showerheads 306a, 306b, 306c are shown in FIG. 7, any number of showerheads 306 may be supported by the base 302 (i.e., at least one). Illustratively, a support tube or arm 308 fluidly couples each pendent showerhead 306 to a fluid supply (illustratively a flow control valve) and suspends the showerhead 306 from the base 302.

[0040] Each showerhead 306 within the assembly 300 is substantially identical. With reference to FIGS. 8-11, an illustrative showerhead 306 includes a waterway 310 received within

an outer housing or shell 312, and extending along a longitudinal axis 314 between an inlet or proximal end 316 and an outlet or distal end 318. The support arm 308 is fluidly coupled to the inlet end of the waterway 310 by a conventional fluid connector 320, and a sprayface 322 is fluidly coupled to the outlet end 318 of the waterway 310. The fluid connector 320 illustratively includes a ball joint 324 to permit adjustment of the showerhead 306 about at least two orthogonal axes (FIG. 11). A nut 326 threadably engages with the proximal end 316 of the waterway 310 to fluidly couple the support tube 308 with the waterway 310.

[0041] The sprayface 322 illustratively includes a base 328 with an upwardly extending sidewall 330. Water outlet openings 332 are formed within the base 328 of the sprayface 322 and extend between an upper surface 334 and a lower surface 336.

[0042] Fluid devices, such as nozzles, are illustratively received within the outlet openings 332. In an illustrative embodiment, a pair of multi-dimensional fluid dispensers or fluidic devices 328 are supported by a receiving body 329 of the outlet end 318 of the waterway 310 and are in fluid communication with the support tube 308. As further detailed herein, a multi-dimensional fluidic device 328 is configured to produce a stream or jet of water moving in at least two dimensions. Additional details of illustrative fluidic devices are provided in US Patent Application Publication No. 2013/0299608 to Spangler et al., the disclosure of which is expressly incorporated herein by reference.

[0043] A light assembly or illumination device 340 is supported by the sprayface 322 and is configured to direct light outwardly in a direction parallel to the longitudinal axis 314. The illumination device 340 illustratively includes a substrate 342 supporting a plurality of light emitters 344. A translucent light pipe or diffuser 346 is coupled to the substrate 342 and defines a closed loop laterally surrounding the water outlet openings 332. More particularly, the housing 312 includes an outer housing wall 348, and the light pipe 346 is supported within the sprayface 322 laterally intermediate the water outlets 332 and the housing wall 348. The light pipe 346 is configured to transmit light outwardly in a direction parallel to the axis 314 of the showerhead 306 toward an outer illumination surface 350. The outer illumination surface 350 illustratively defines a closed loop positioned laterally outside of the water outlets 332 and flush with the adjacent outer surface 336 of the sprayface 322.

[0044] The illumination device 340 further illustratively includes an upper housing 352 coupled to the sprayface 322 and supporting the light emitters 344. More particularly, fasteners 354 illustratively couple the upper housing 352 and the sprayface 322 to the receiving body 329 of the waterway 310. The upper housing 352 includes inner and outer walls 356 and 358 extending downwardly from a base 360. A cavity or recess 362 is defined between the walls 356 and 358 and receives the substrate 342. An adhesive gasket 364 may be used to secure the substrate 342 within the cavity 362 such that the light emitters 344 are supported on a lower surface of the substrate 342. In a further illustrative embodiment, a potting material (e.g., a transparent resin) may be used to secure the substrate 342 and the light emitters 344 within the cavity 362. Additionally, the potting material may enclose the substrate 342 and the light emitters 344 to provide a seal from humidity and water.

[0045] The light pipe 346 is illustratively coupled to the upper housing 352 by flexible tabs 365 extending upwardly from an upper surface of the light pipe 346, through openings or slots 367 formed within the upper housing 352, and received within openings or slots 369 formed within the sprayface 322. In alternative embodiments, the light pipe 346 may be held in place by being sandwiched between the nut 326, the shell 348, the waterway 310 and the faceplate 322. It may be appreciated that other coupling means may be substituted therefor.

[0046] The light emitters 344 illustratively comprise a plurality of light emitting diodes (LEDs) circumferentially spaced on the substrate 342. Illustratively, the substrate 342 comprises a printed circuit board (e.g., a glass reinforced epoxy laminate sheet) including a plurality of electrically conductive traces (e.g., formed of copper) supported thereon for coupling the LEDs to wires 366. The wires 366 may be in electrical communication with a controller 368 supported on a printed circuit board 370. A potting material (e.g., a transparent resin) may seal the controller 368 and the printed circuit board 370 from humidity and water.

[0047] A power source is in electrical communication with the light emitters 344. Illustratively, the power source includes a hydro-generator 372 fluidly coupled to the waterway 310. More particularly, an impeller 374 of the hydro-generator 372 is within the water flow path defined by the waterway 310. Magnets 376 are received within a housing 378 and coupled to the impeller 374 via a shaft 380 rotatable supported by bearings 382. As such, rotation of the impeller 374 by water flow through the waterway 310 causes similar rotation of the magnets 376.

Coils 384 are supported within the housing 378 and proximate the magnets 376. As is known, rotation of the magnets 376 relative to the coils 384 generates electricity which is then provided to the light emitters 344.

[0048] Although the invention has been described in detail with reference to certain preferred embodiments, variations and modifications exist within the spirit and scope of the invention as described and defined in the following claims.

CLAIMS:

1. A sprayhead comprising:
 - a housing defining a longitudinal axis;
 - a waterway received within the housing;
 - a sprayface fluidly coupled to the waterway and supporting a water outlet; and
 - an illumination device supported by the housing, the illumination device including a substrate, a plurality of light emitters supported by the substrate, and a translucent light pipe defining a closed loop to diffuse light from the light emitters outwardly away from the housing.
2. The sprayhead of claim 1, wherein the sprayhead comprises a pull-down sprayhead configured to be releasably coupled to a delivery spout of a faucet.
3. The sprayhead of claim 2, wherein the light pipe includes an annular ring configured to transmit light radially outwardly from the longitudinal axis.
4. The sprayhead of claim 3, wherein the light emitters comprise a plurality of circumferentially spaced light emitting diodes.
5. The sprayhead of claim 3, further comprising a diverter valve assembly fluidly coupled to the waterway, wherein the sprayface includes a stream outlet and a spray outlet, the diverter valve assembly configured to divert water between the stream outlet and the spray outlet.
6. The sprayhead of claim 1, wherein the sprayhead comprises a pendant showerhead configured to be suspended downwardly from a ceiling.
7. The sprayhead of claim 6, further comprising a pendant arm and a coupler fluidly coupling the waterway to the pendant arm, the coupler including a ball joint such that the housing is supported for rotation about at least two orthogonal axes.

8. The sprayhead of claim 6, wherein the housing includes an outer housing wall, and the light pipe is supported within the spray face laterally intermediate the water outlet and the housing wall.
9. The sprayhead of claim 1, further comprising a hydro-generator fluidly coupled to the waterway and in electrical communication with the illumination device.
10. A pull-down sprayhead for a faucet, the sprayhead comprising:
 - a housing defining a longitudinal axis extending between a proximal end and a distal end;
 - a waterway received within the housing;
 - a sprayface fluidly coupled to the waterway and defining a water outlet; and
 - an illumination device supported by the housing, the illumination device including a substrate, a plurality of light emitters supported by the substrate, and a translucent light pipe including an outer illumination surface extending perpendicular to the longitudinal axis of the housing, the translucent light pipe defining a closed loop to diffuse light from the light emitters outwardly to the outer illumination surface.
11. The sprayhead of claim 10, further comprising a hydro-generator fluidly coupled to the waterway and in electrical communication with the illumination device.
12. The sprayhead of claim 10, wherein the light pipe includes an annular ring configured to transmit light radially outwardly.
13. The sprayhead of claim 12, wherein the annular ring includes a distal portion extending parallel to the longitudinal axis and configured to transmit light from the light emitters in an axial direction, and a proximal portion extending radially outwardly from the distal portion and configured to transmit light toward the outer illumination surface.
14. The sprayhead of claim 12, wherein the light emitters comprise a plurality of circumferentially spaced light emitting diodes.

15. The sprayhead of claim 10, further comprising a diverter valve assembly fluidly coupled to the waterway, wherein the sprayface includes a stream outlet and a spray outlet, the diverter valve assembly configured to divert water between the stream outlet and the spray outlet.

16. The sprayhead of claim 10, further comprising a coupler configured to releasably couple the housing to a delivery spout of a faucet.

17. The sprayhead of claim 10, further comprising:
a temperature sensor configured to detect the temperature of water within the waterway;
and
a controller in electrical communication with the temperature sensor, the controller configured to change the color of light emitted by the light emitters in response to the temperature detected by the temperature sensor.

18. The sprayhead of claim 17, wherein the plurality of light emitters include a first light emitter configured to generate light of a first color when the signal from the temperature sensor detects a first water temperature, a second light emitter configured to generate light of a second color when the signal from the temperature sensor detects a second water temperature greater than the first water temperature, and the first and second light emitters blend the light of the first color and the light of the second color and generate light of a third color when the signal from the temperature sensor detects a third water temperature between the first water temperature and the second water temperature.

19. A pendant showerhead comprising:
a housing defining a longitudinal axis;
a waterway received within the housing;
a sprayface fluidly coupled to the waterway and including a water outlet; and
an illumination device supported by the sprayface, the illumination device including a substrate, a plurality of light emitters supported by the substrate, and a translucent light pipe defining a closed loop surrounding the water outlet to diffuse light from the light emitters outwardly in a direction parallel to the longitudinal axis.

20. The showerhead of claim 19, further comprising a pendant arm and a coupler fluidly coupling the waterway to the pendant arm, the coupler including a ball joint such that the housing is supported for rotation about at least two orthogonal axes.
21. The showerhead of claim 19, further comprising a hydro-generator fluidly coupled to the waterway and in electrical communication with the illumination device.
22. The showerhead of claim 19, wherein the housing includes an outer housing wall, and the light pipe is supported within the spray face laterally intermediate the water outlet and the housing wall.
23. The showerhead of claim 22, wherein the translucent light pipe includes an outer illumination surface extending parallel to an outer surface of the sprayface.
24. The showerhead of claim 19, further comprising a multi-dimensional fluidic device received within the water outlet.

Abstract of the Disclosure

A sprayhead for dispensing water includes a housing and an illumination device supported by the housing. The illumination device includes a plurality of light emitters supported by a substrate, and a translucent light pipe defining a closed loop to diffuse light outwardly from the light emitters.

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		
First Named Inventor/Applicant Name:		Casey S. Weaver		
Filer:		Douglas Alan Yerkeson/Patsy Fonseca		
Attorney Docket Number:		DFC-5327-01-US		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	4	100	400
Miscellaneous-Filing:				
LATE FILING FEE FOR OATH OR DECLARATION	1051	1	160	160

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				2280

Electronic Acknowledgement Receipt	
EFS ID:	32400631
Application Number:	15958674
International Application Number:	
Confirmation Number:	8038
Title of Invention:	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
First Named Inventor/Applicant Name:	Casey S. Weaver
Customer Number:	79958
Filer:	Douglas Alan Yerkeson/Patsy Fonseca
Filer Authorized By:	Douglas Alan Yerkeson
Attorney Docket Number:	DFC-5327-01-US
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Application Type:	Utility under 35 USC 111(a)

Payment information:

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Payment was successfully received in RAM	\$2280
RAM confirmation Number	042318INTEFSW16181300
Deposit Account	020390
Authorized User	Patsy Fonseca
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.21 (Miscellaneous fees and charges)	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	20180420_DFC-5327-01-US_ADS.pdf	1256347	no	9
			66823c89315552d0e65800e843c178f1d2d7ede7		
Warnings:					
Information:					
2	Drawings-only black and white line drawings	20180420_DFC-5327-01-US_Drawings.pdf	810775	no	11
			55a7ae51fae5846e03b37b6f23fd35e127bb12cf		
Warnings:					
Information:					
3		20180420_DFC-5327-01-US_PatentApplication.pdf	107082	yes	16
			54e336c9776f2be6f73964c63aaafe55f5bf87c5		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	11	
	Claims		12	15	
	Abstract		16	16	
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	38093	no	2
			10f87272f62812fae0c1472e30da5bacf89bcad		
Warnings:					
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Total Files Size (in bytes):			2212297		

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

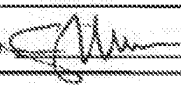
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>15/958,674</u> filed on <u>April 20, 2018</u> 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 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. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR Inventor: <u>Casey S. Weaver</u> Date (Optional): <u>04/20/2018</u> Signature: 	
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>15/958,674</u> filed on <u>April 20, 2018</u> 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 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. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR Inventor: <u>Martin Jennings Kimbell</u> Date (Optional): <u>4/23/18</u> Signature: <u><i>Martin Jennings Kimbell</i></u>	
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

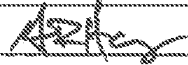
Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☐ United States application or PCT international application number _____ filed on _____. The above-identified application 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 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. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. LEGAL NAME OF INVENTOR Inventor: <u>Alisha Buescher</u> Date (Optional): _____ Signature: <u><i>Alisha Buescher</i></u> Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>15/958,674</u> filed on <u>April 20, 2018</u> 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 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. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR Inventor: <u>Gerald R. Hayes</u> Date (Optional): _____ Signature: 	
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

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If you need assistance in completing this form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt	
EFS ID:	32462162
Application Number:	15958674
International Application Number:	
Confirmation Number:	8038
Title of Invention:	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
First Named Inventor/Applicant Name:	Casey S. Weaver
Customer Number:	79958
Filer:	Douglas Alan Yerkeson/Patsy Fonseca
Filer Authorized By:	Douglas Alan Yerkeson
Attorney Docket Number:	DFC-5327-01-US
Receipt Date:	27-APR-2018
Filing Date:	
Time Stamp:	09:00:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	20180427_DFC-5327-01-US_Declarations.pdf	399810	no	4
			00f2f4d3e5ec0bdb51e35c3ac66508fde74e63b3		

Warnings:

Information:	
Total Files Size (in bytes):	399810
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
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LEGAL NAME OF INVENTOR	
Inventor: <u>Alisha Buescher</u> Date (Optional): _____	
Signature: <u><i>Alisha Buescher</i></u>	
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

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Electronic Acknowledgement Receipt	
EFS ID:	32463953
Application Number:	15958674
International Application Number:	
Confirmation Number:	8038
Title of Invention:	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
First Named Inventor/Applicant Name:	Casey S. Weaver
Customer Number:	79958
Filer:	Douglas Alan Yerkeson/Patsy Fonseca
Filer Authorized By:	Douglas Alan Yerkeson
Attorney Docket Number:	DFC-5327-01-US
Receipt Date:	27-APR-2018
Filing Date:	
Time Stamp:	10:42:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	20180427_DFC-5327-01-US_Declaration_of_Buescher.pdf	67452	no	1
			5afa80f3219ef4155721ee019a634247939c0793		
Warnings:					

Information:	
Total Files Size (in bytes):	67452
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 15/958,674				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	300			
SEARCH FEE (37 CFR 1.16(k), (j), or (m))	N/A	N/A	N/A			N/A	660			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760			
TOTAL CLAIMS (37 CFR 1.16(i))	24	minus 20 = *	4			x 100 =	400			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x 460 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	2120			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
15/958,674	04/20/2018	3752	2280	DFC-5327-01-US	24	3

CONFIRMATION NO. 8038

FILING RECEIPT



000000099306152

79958
Masco Corporation
Faegre Baker Daniels LLP
300 North Meridian Street
Suite 2700
Indianapolis, IN 46204

Date Mailed: 05/16/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Casey S. Weaver, Carmel, IN;
Martin Jennings Kimbell, Wauconda, IL;
Alisha Buescher, Jamestown, IN;
Gerald R. Hayes, Lebanon, IN;

Applicant(s)

Delta Faucet Company, Indianapolis, IN

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 62/490,008 04/25/2017

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 05/14/2018

page 1 of 3

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/958,674**

Projected Publication Date: 10/25/2018

Non-Publication Request: No

Early Publication Request: No
Title

ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS

Preliminary Class

239

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/958,674	04/20/2018	Casey S. Weaver	DFC-5327-01-US

CONFIRMATION NO. 8038

79958

Masco Corporation
Faegre Baker Daniels LLP
300 North Meridian Street
Suite 2700
Indianapolis, IN 46204

PUBLICATION NOTICE



OC000000103351554

Title:ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS

Publication No.US-2018-0306430-A1

Publication Date:10/25/2018

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	1	of	11	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	Cite No.	DOCUMENT NUMBER	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	AA	US 2,036,567	04-07-1936	Cannon	
	AB	US 2,105,632	01-18-1938	Bernesseer	
	AC	US 2,274,893	03-03-19421	Freedman	
	AD	US 2,598,357	05-27-1952	Coleman	
	AE	US 2,631,393	03-17-1953	Hetherington	
	AF	US 3,810,250	05-07-1974	McGregor	
	AG	US 3,812,340	05-21-1974	Brandt	
	AH	US 3,334,745	08-08-1967	Burgess et al.	
	AI	US 3,998,240	12-21-1976	Liautaud	
	AJ	US 4,037,624	07-26-1977	Turner et al.	
	AK	US 4,088,880	05-09-1978	Walsh	
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Examiner Signature				Date Considered		

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
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Examiner Signature				Date Considered		

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				Examiner Name	Jose Diaz
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				Art Unit	2879
				Examiner Name	Jose Diaz
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				Examiner Name	Jose Diaz
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				Art Unit	2879
				Examiner Name	Jose Diaz
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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	IU	JP2003064743A	03-05-2003	Inax Corp.		English Abstract
	IV	DE10144602A1	04-03-2003	Wolfgang		English Abstract
	IW	JP2003119854A	04-23-2003	Inax Corp.		English Abstract
	IX	JP2003147823A	05-21-2003	Inax Corp.		English Abstract
	IY	JP2003213745A	07-30-2003	San El Faucet Mfg. Co. Ltd.		English Abstract
	IZ	JP2003232059A	08-19-2003	Uro Electronics Co. Ltd.		English Abstract
Examiner Signature				Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	10	of	11	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	Cite No.	DOCUMENT NUMBER	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	JA	US 2008/0099091 A1	05-01-2008	Benstead	
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	JT	US 2011/0216526 A1	09-08-2011	Li	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	JU	JP2003293405A	10-15-2003	Inax Corp.		English Abstract
	JV	JP2003293406A	10-15-2003	Inax Corp.		English Abstract
	JW	JP2004116083A	04-15-2004	Toto Ltd.		English Abstract
	JX	CN201250949Y	06-03-2009	Chen		English Abstract
	JY	WO2010120070A2	10-21-2010	Top Nanosys Inc.		English Abstract
	JZ	WO2010120070A3	01-13-2011	Top Nanosys Inc.		English Abstract
Examiner Signature				Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	11	of	11	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	Cite No.	DOCUMENT NUMBER	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	KA	US 2012/0188179 A1	07-26-2012	Karlsson	
	KB	US 2012/0200517 A1	08-09-2012	Nikolovski	
	KC	US 2012/0223805 A1	09-06-2012	Haag et al.	
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	KI	US 2018/0306429 A1	10-25-2018	Rosko et al.	
	KJ				
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
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	KU	DE102013002236A1	08-14-2014	Grohe AG		English Abstract
	KV	WO 2009/158498	12-30-2009	Masco Corp.		
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Examiner Signature				Date Considered		

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<i>Application No.:</i>	15/958,674	}	<i>Confirmation No.:</i> 8038
<i>Applicants:</i>	Casey S. Weaver et al.		
<i>Filed:</i>	April 20, 2018		
<i>Title:</i>	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		
<i>Art Unit:</i>	2879		
<i>Examiner:</i>	Jose Diaz		
<i>Atty. Docket No.:</i>	DFC-5237-01-US		
<i>Customer No.:</i>	79958	}	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This statement is filed in the application identified above pursuant to 37 C.F.R. §§ 1.97 and 1.98. The Applicant calls attention to the art references listed on the attached substitute form PTO-SB08, which are within the knowledge of applicant and its attorneys. No representation is intended that a complete search has been made or that no better art references are available. The filing of this statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to the patentability as defined in 1.56(b). Copies of the cited foreign patent documents are attached.

Information Disclosure Statement
Appl. No. 15/958,674
Page 2

Applicant believes that no fee is due for the submission of this Information Disclosure Statement. If any fees are due in connection with this document, please charge any such fee or credit any overpayment to Deposit Account No. 02-0390, but not to include the payment of any issue fees.

Respectfully submitted,

/Douglas A. Yerkeson/

Douglas A. Yerkeson, Reg. No. 39,882

Attorney for Applicants

FAEGRE BAKER DANIELS LLP

300 North Meridian Street, Suite 2700

Indianapolis, IN 46204

Dated: March 19, 2019

Electronic Acknowledgement Receipt	
EFS ID:	35472987
Application Number:	15958674
International Application Number:	
Confirmation Number:	8038
Title of Invention:	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
First Named Inventor/Applicant Name:	Casey S. Weaver
Customer Number:	79958
Filer:	Douglas Alan Yerkeson/kim richardson
Filer Authorized By:	Douglas Alan Yerkeson
Attorney Docket Number:	DFC-5327-01-US
Receipt Date:	19-MAR-2019
Filing Date:	20-APR-2018
Time Stamp:	23:55:24
Application Type:	Utility under 35 USC 111(a)

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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Electronic Acknowledgement Receipt	
EFS ID:	35473002
Application Number:	15958674
International Application Number:	
Confirmation Number:	8038
Title of Invention:	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
First Named Inventor/Applicant Name:	Casey S. Weaver
Customer Number:	79958
Filer:	Douglas Alan Yerkeson/kim richardson
Filer Authorized By:	Douglas Alan Yerkeson
Attorney Docket Number:	DFC-5327-01-US
Receipt Date:	19-MAR-2019
Filing Date:	20-APR-2018
Time Stamp:	23:59:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Electronic Acknowledgement Receipt	
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Confirmation Number:	8038
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First Named Inventor/Applicant Name:	Casey S. Weaver
Customer Number:	79958
Filer:	Douglas Alan Yerkeson/kim richardson
Filer Authorized By:	Douglas Alan Yerkeson
Attorney Docket Number:	DFC-5327-01-US
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Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	GB2288974A.PDF	1671100	no	21
			b289b314564f802e3c01cb94be1a7f54d05f39fb		
Warnings:					

Information:					
2	Foreign Reference	DE102013002236A1.PDF	11985904	no	9
			3bda0b31682d2df4a6e31e51efc34b000703ce0		
Warnings:					
Information:					
Total Files Size (in bytes):			13657004		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	1	of	1	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	Cite No.	DOCUMENT NUMBER	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	AA				
	AB				
	AC				
	AD				
	AE				
	AF				
	AG				
	AH				
	AI				
	AJ				
	AK				
	AL				
	AM				
	AN				
	AO				
	AP				
	AQ				
	AR				
	AS				
	AT				

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	AU	JP 2003171958 A	06-20-2003	Inax Corp.		Abstract
	AV	GB 2288974A	11-08-1995	Li		
	AW	DE 102013002236 A1	08-14-2014	Grohe AG		Abstract
	AX					
	AY					
	AZ					
Examiner Signature				Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<i>Application No.:</i>	15/958,674	}	<i>Confirmation No.:</i> 8038
<i>Applicants:</i>	Casey S. Weaver et al.		
<i>Filed:</i>	April 20, 2018		
<i>Title:</i>	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		
<i>Art Unit:</i>	2879		
<i>Examiner:</i>	Jose Diaz		
<i>Atty. Docket No.:</i>	DFC-5327-01-US		
<i>Customer No.:</i>	79958	}	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This statement is filed in the application identified above pursuant to 37 C.F.R. §§ 1.97 and 1.98. The Applicant calls attention to the art reference listed on the attached substitute form PTO-SB08, which is within the knowledge of Applicant and its attorneys. No representation is intended that a complete search has been made or that no better art references are available. The filing of this statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to the patentability as defined in 1.56(b). A copy of the cited foreign patent document is attached.

Information Disclosure Statement
Appl. No. 15/958,674
Page 2

Applicant believes that no fee is due for the submission of this Information Disclosure Statement. If any fees are due in connection with this document, please charge any such fee or credit any overpayment to Deposit Account No. 02-0390, but not to include the payment of any issue fees.

Respectfully submitted,

/Douglas A. Yerkeson/

Douglas A. Yerkeson, Reg. No. 39,882

Attorney for Applicants

FAEGRE BAKER DANIELS LLP

300 North Meridian Street, Suite 2700

Indianapolis, IN 46204

Dated: March 20, 2019

Electronic Acknowledgement Receipt	
EFS ID:	35485607
Application Number:	15958674
International Application Number:	
Confirmation Number:	8038
Title of Invention:	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
First Named Inventor/Applicant Name:	Casey S. Weaver
Customer Number:	79958
Filer:	Douglas Alan Yerkeson/kim richardson
Filer Authorized By:	Douglas Alan Yerkeson
Attorney Docket Number:	DFC-5327-01-US
Receipt Date:	20-MAR-2019
Filing Date:	20-APR-2018
Time Stamp:	22:01:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20190320_DFC-5327-01-US_IDS_SB08.pdf	158616	no	1
			b532c7ec4acaa0060625a45ce9e0e714c0ba0719		
Warnings:					

Information:					
This is not an USPTO supplied IDS fillable form					
2	Foreign Reference	JP2003171958A.pdf	9753262	no	7
			391b2ee9852d50b21865a845433c39307b355305		
Warnings:					
Information:					
3	Foreign Reference	GB2288974A.PDF	1671100	no	21
			b289b314564f802e3c01cb94be1a7f54d05f39fb		
Warnings:					
Information:					
4	Foreign Reference	DE102013002236A1.PDF	11985904	no	9
			3bda0b31682d2df4a6e31e51efc34b00070f3ce0		
Warnings:					
Information:					
5	Transmittal Letter	20190320_DFC-5327-01-US_IDS_Transmittal.pdf	97634	no	2
			8f3a826010918074062637d235a049bdc6ed06e6		
Warnings:					
Information:					
Total Files Size (in bytes):			23666516		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

79958 7590 03/21/2019
Masco Corporation
Faegre Baker Daniels LLP
300 North Meridian Street
Suite 2700
Indianapolis, IN 46204

EXAMINER

DIAZ, JOSE

ART UNIT

PAPER NUMBER

2879

DATE MAILED: 03/21/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/958,674	04/20/2018	Casey S. Weaver	DFC-5327-01-US	8038

TITLE OF INVENTION: ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	06/21/2019

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

79958 7590 03/21/2019
Masco Corporation
Faegre Baker Daniels LLP
300 North Meridian Street
Suite 2700
Indianapolis, IN 46204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/958,674	04/20/2018	Casey S. Weaver	DFC-5327-01-US	8038

TITLE OF INVENTION: ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	06/21/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
DIAZ, JOSE	2879	362-096000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/958,674	04/20/2018	Casey S. Weaver	DFC-5327-01-US	8038
79958	7590	03/21/2019	EXAMINER	
Masco Corporation Faegre Baker Daniels LLP 300 North Meridian Street Suite 2700 Indianapolis, IN 46204			DIAZ, JOSE	
			ART UNIT	PAPER NUMBER
			2879	
DATE MAILED: 03/21/2019				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/958,674	Applicant(s) Weaver et al.	
	Examiner JOSE M DIAZ	Art Unit 2879	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed on 04/20/2018.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-24 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☐ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file areply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	

/JOSEPH L WILLIAMS/ Primary Examiner, Art Unit 2879	/JOSE M DIAZ/ Examiner, Art Unit 2879
--	--

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Allowable Subject Matter

Claims 1-24 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the references of Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 1, and specifically comprising the limitation directed to the sprayerhead comprising an illumination device supported by the housing, the illumination device including a substrate, a plurality of light emitters supported by the substrate, and a translucent light pipe defining a closed loop to diffuse light from the light emitters outwardly away from the housing, in combination with the remaining limitations. This limitation has not been found, taught, suggested or render obvious by the prior art of the record with a reasonable expectation of success, which it makes this claim allowable over the prior art.

Regarding claims 2-9, the claims are allowable for the reasons given in claim 1 because of their dependency status from claim 1.

Regarding claim 10, the references of Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 10, and specifically comprising the limitation directed to the sprayerhead comprising an illumination device supported by the housing, the illumination device including a substrate, a plurality of light emitters supported by the substrate, and a translucent light pipe including an outer illumination

surface extending perpendicular to the longitudinal axis of the housing, the translucent light pipe defining a closed loop to diffuse light from the light emitters outwardly to the outer illumination surface, in combination with the remaining limitations. This limitation has not been found, taught, suggested or render obvious by the prior art of the record with a reasonable expectation of success, which it makes this claim allowable over the prior art.

Regarding claims 11-18, the claims are allowable for the reasons given in claim 10 because of their dependency status from claim 10.

Regarding claim 19, the references of Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 19, and specifically comprising the limitation directed to the pendant showerhead comprising an illumination device supported by the sprayface, the illumination device including a substrate, a plurality of light emitters supported by the substrate, and a translucent light pipe defining a closed loop surrounding the water outlet to diffuse light from the light emitters outwardly in a direction parallel to the longitudinal axis, in combination with the remaining limitations. This limitation has not been found, taught, suggested or render obvious by the prior art of the record with a reasonable expectation of success, which it makes this claim allowable over the prior art.

Regarding claims 20-24, the claims are allowable for the reasons given in claim 19 because of their dependency status from claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSE M. DIAZ whose telephone number is (571)272-9822. The examiner can normally be reached on Monday-Friday 8:00-4:00.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/JOSE M DIAZ/
Examiner, Art Unit 2879

/JOSEPH L WILLIAMS/
Primary Examiner, Art Unit 2879

Notice of References Cited	Application/Control No. 15/958,674		Applicant(s)/Patent Under Reexamination Weaver et al.	
	Examiner JOSE M DIAZ		Art Unit 2879	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20180306429-A1	10-2018	Rosko; Michael Scot	F21V33/004	1/1
*	B	US-20180128439-A1	05-2018	BRULS; Georgius Josephus Cyrillus Ludovicus	B05B17/085	1/1
*	C	US-20150202642-A1	07-2015	ISLEY; Calvin Ross	B05B9/01	239/289
*	D	US-20100213398-A1	08-2010	Brunner; Stefan	E03C1/0404	251/129.01
*	E	US-20100093267-A1	04-2010	Hogh; Robert	B60H1/34	454/76
*	F	US-20080271238-A1	11-2008	Reeder; Ryan A.	A46B7/04	4/597
*	G	US-20060152917-A1	07-2006	Stuhlmacher; Glen II	E03C1/04	362/109
*	H	US-20060117476-A1	06-2006	Kunkel; Richard K.	B05B1/044	4/675
*	I	US-20120227841-A1	09-2012	Peteri; Niels Theodoor	E03C1/0411	137/552
*	J	US-20040032749-A1	02-2004	Schindler, Robert J.	E03C1/0412	362/555
*	K	US-20130276911-A1	10-2013	Meehan; Steven Kyle	E03C1/04	137/355.16
*	L	US-20100125946-A1	05-2010	Meisner; David J.	E03C1/0404	4/678
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Search Notes</i> 	Application/Control No. 15/958,674	Applicant(s)/Patent Under Reexamination Weaver et al.
	Examiner JOSE M DIAZ	Art Unit 2879

CPC - Searched*		
Symbol	Date	Examiner
F21V33/004,0044 F21S9/046 F21V7/0066 F21V23/0464,0471,0442 E03C1/02 F21S10/002 B05B1/185 F21Y2103/33 F21S10/00 H05K2201/ 10106 H05K1/181 H05K2201/10287,10522 F21W2131/30 F21Y2115/10 A61L2209/12	03/11/2019	jmd

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
EAST & PALM INV	03/11/2019	jmd
EAST	03/11/2019	jmd
EAST	03/12/2019	jmd
EAST	03/13/2019	jmd

/JOSE M DIAZ/ Examiner, Art Unit 2879	
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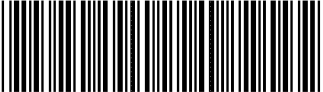
<i>Search Notes</i> 	Application/Control No. 15/958,674	Applicant(s)/Patent Under Reexamination Weaver et al.
	Examiner JOSE M DIAZ	Art Unit 2879

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
F21V33	004,0044	03/13/2019	jmd
4 F21S9	046	03/13/2019	jmd
F21V7	0066	03/13/2019	jmd
F21V23	0464,0471,0442	03/13/2019	jmd
E03C1	02	03/13/2019	jmd
F21S10	002,00	03/13/2019	jmd
B05B1	128	03/13/2019	jmd
F21V33/ 004,0044 F21S9/046 F21V7/0066 F21V23/ 0464,0471,044 2 E03C1/02 F21S10/002 B05B1/185 F21Y2103/33 F21S10/00 H05K2201/ 10106 H05K1/ 181 H05K2201/ 10287,10522 F21W2131/30 F21Y2115/10 A61L2209/12 F21W2131/30		03/13/2019	jmd
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H05K1	181	03/13/2019	jmd
H05K2201	10287,10522	03/13/2019	jmd
F21W2131	30	03/13/2019	jmd
F21Y2115	10	03/13/2019	jmd
A61L2209	12	03/13/2019	jmd

/JOSE M DIAZ/ Examiner, Art Unit 2879	
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Search Notes 	Application/Control No. 15/958,674	Applicant(s)/Patent Under Reexamination Weaver et al.
	Examiner JOSE M DIAZ	Art Unit 2879

/JOSE M DIAZ/ Examiner, Art Unit 2879	
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Issue Classification 	Application/Control No. 15/958,674	Applicant(s)/Patent Under Reexamination Weaver et al.
	Examiner JOSE M DIAZ	Art Unit 2879

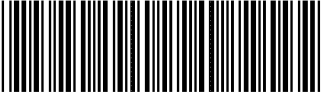
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F21S	/	10	/	002	I	2013-01-01
B05B	/	1	/	185	I	2013-01-01
E03C	/	1	/	02	I	2013-01-01
F21V	/	7	/	0066	I	2013-01-01
F21V	/	23	/	0464	I	2013-01-01
F21V	/	23	/	0471	I	2013-01-01
F21S	/	9	/	046	I	2013-01-01
F21Y	/	2115	/	10	A	2016-08-01
F21W	/	2131	/	30	A	2013-01-01
H05K	/	1	/	181	A	2013-01-01
H05K	/	2201	/	10106	A	2013-01-01
H05K	/	2201	/	10287	A	2013-01-01
H05K	/	2201	/	10522	A	2013-01-01
F21S	/	10	/	00	A	2013-01-01
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F21Y	/	2103	/	33	A	2016-08-01

CPC Combination Sets					
Symbol		Type	Set	Ranking	Version
	/		/		

/JOSE M DIAZ/ Examiner, Art Unit 2879 (Assistant Examiner)	13 March 2019 (Date)	Total Claims Allowed: 24	
/JOSEPH L WILLIAMS/ Primary Examiner, Art Unit 2879 (Primary Examiner)	14 March 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 3

U.S. Patent and Trademark Office

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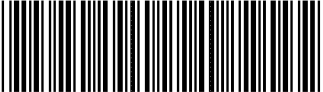
Issue Classification 	Application/Control No. 15/958,674	Applicant(s)/Patent Under Reexamination Weaver et al.
	Examiner JOSE M DIAZ	Art Unit 2879

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B05B1/18	/	1	/	18
E03C1/02	/	1	/	02
F21S9/04	/	9	/	04
F21V7/00	/	7	/	00
H05K1/18	/	1	/	18
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F21W131/30	/	131	/	30
F21Y103/33	/	103	/	33
F21Y115/10	/	115	/	10
NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

/JOSE M DIAZ/ Examiner, Art Unit 2879 (Assistant Examiner)	13 March 2019 (Date)	Total Claims Allowed: 24	
/JOSEPH L WILLIAMS/ Primary Examiner, Art Unit 2879 (Primary Examiner)	14 March 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 3

Issue Classification 	Application/Control No. 15/958,674	Applicant(s)/Patent Under Reexamination Weaver et al.
	Examiner JOSE M DIAZ	Art Unit 2879

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
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	2		11		20										
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	6		15		24										
	7		16												
	8		17												
	9		18												

/JOSE M DIAZ/ Examiner, Art Unit 2879 (Assistant Examiner)	13 March 2019 (Date)	Total Claims Allowed: 24	
/JOSEPH L WILLIAMS/ Primary Examiner, Art Unit 2879 (Primary Examiner)	14 March 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 3

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S5	367	((("Delta") near3 ("Faucet") near3 ("Company"))).AS,AANM.	USPAT	OR	ON	2019/03/11 16:48
S4	2	((("Weaver") near3 ("Casey") near3 ("S"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/11 16:48
S3	2	((("Kimbell") near3 ("Martin") near3 ("Jennings"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/11 16:48
S2	1	((("Buescher") near3 ("Alisha"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/11 16:48
S1	7	((("Hayes") near3 ("Gerald") near3 ("R"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/11 16:48
S6	50849	(F21V33/004 F21S9/046 F21V7/0066 F21V23/0464,0471,0442 E03C1/02 F21S10/002 B05B1/185 F21Y2103/33 F21S10/00 H05K2201/10106 H05K1/181 H05K2201/10287,10522 F21W2131/30 F21Y2115/10).cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/11 16:51
S7	1093	(A61L2209/12 F21W2131/30 F21V33/0044).cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/11 16:53
L2	122	(faucet spout spigot nozzle tap) near (illuminated lit illumed lighted lighting illumination light) and L1	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:12
L1	50892	(F21V33/004 F21S9/046 F21V7/0066 F21V23/0464,0471,0442 E03C1/02 F21S10/002 B05B1/185 F21Y2103/33 F21S10/00 H05K2201/10106 H05K1/181 H05K2201/10287,10522 F21W2131/30 F21Y2115/10).cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:12
L6	2052	(faucet spout spigot nozzle tap) near (illuminated lit illumed lighted lighting illumination light)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 13:13
L5	3030	(faucet spout spigot nozzle tap) near (illuminated lit illumed lighted lighting illumination light) not (2 4)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:13
L4	2	(faucet spout spigot nozzle tap) near (illuminated lit illumed lighted lighting illumination light) and L3	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:13
L3	1094	(A61L2209/12 F21W2131/30 F21V33/0044).cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:13
L9	3030	(faucet spout spigot nozzle tap) near (illuminated lit illumed lighted lighting illumination light) and 5	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:19

L8	0	((light wave) near (guide conduct\$3 transmit\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) near3 (annular ring circle hoop disk disc halo circlet eye round circular loop) and 4	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 13:19
L7	0	((light wave) near (guide conduct\$3 transmit\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) near3 (annular ring circle hoop disk disc halo circlet eye round circular loop) and 2	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 13:19
L10	0	((light wave) near (guide conduct\$3 transmit\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) near3 (annular ring circle hoop disk disc halo circlet eye round circular loop) and 5	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 13:23
L11	0	((light wave) near (guide conduct\$3 transmit\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) near3 (annular ring circle hoop disk disc halo circlet eye round circular loop) and 2	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:24
L12	9	((light wave) near (guide conduct\$3 transmit\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) near3 (annular ring circle hoop disk disc halo circlet eye round circular loop) and 6	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 13:25
L14	115	((light wave) near (guide conduct\$3 transmit\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) near3 (annular ring circle hoop disk disc halo circlet eye round circular loop) and 5	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:27
L13	0	((light wave) near (guide conduct\$3 transmit\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) near3 (annular ring circle hoop disk disc halo circlet eye round circular loop) and 4	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:27
L15	62	(faucet spout spigot nozzle) near (illuminated lit illumed lighted lighting illumination light) and L1	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:30
L17	0	((plumbing water) near fixture) near (illuminated lit illumed lighted lighting	US-PGPUB; USPAT;	OR	ON	2019/03/13 13:40

		illumination light) and 3	USOCR			
L16	34	((plumbing water) near fixture) near (illuminated lit illumed lighted lighting illumination light) and L1	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:40
L19	0	((plumbing water) near fixture) near (illuminated lit illumed lighted lighting illumination light) and 6	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 13:41
L18	1	((plumbing water) near fixture) near (illuminated lit illumed lighted lighting illumination light) and 5	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 13:41
L21	27	16 not 2	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 14:15
L20	366	16 not2	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 14:15
L23	1	(sprayer sprayface spray near nozzle) and 16	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 14:31
L22	6	(sprayer sprayface spray near nozzle) and 15	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 14:31
L24	73	kitchen near (faucet spout spigot nozzle tap) with (sprayer sprayface spray near nozzle)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 14:39
L25	0	((hanging pendant) near2 showerhead) near (illuminated lit illumed lighted lighting illumination light)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 15:00
L28	32	(showerhead) near (illuminated lit illumed lighted lighting illumination light)	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 15:01
L27	13	(showerhead) near (illuminated lit illumed lighted lighting illumination light)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 15:01
L26	0	((hanging pendant) near2 showerhead) near (illuminated lit illumed lighted lighting illumination light)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 15:01
L30	0	((((light wave) near (guide conduct\$3 transmitt\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) and 28	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 15:04
L29	0	((((light wave) near (guide conduct\$3 transmitt\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) near3 (annular ring circle hoop disk disc halo circlet eye round circular loop) and 28	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 15:04
L32	57	(sprayhead spray near (spout spigot nozzle)) near (illuminated lit illumed lighted lighting illumination light) not 31	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 15:07
L31	3	(sprayhead spray near (spout spigot	US-PGPUB;	OR	ON	2019/03/13

EAST Search History

		nozzle)) near (illuminated lit illumed lighted lighting illumination light) and L1	USPAT; USOCR			15:07
L33	24	((light wave) near (guide conduct\$3 transmitt\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) and 32	US-PGPUB; USPAT; USOCR	OR	ON	2019/03/13 15:10
L35	10	((light wave) near (guide conduct\$3 transmitt\$3 transport\$3 channel\$3 conduit\$3) lightguide waveguide) (((optic optical light conduct\$3 conduit\$3) with (fiber filament strand hair pipe waveguide wavepipe)) (lightpipe lightguide))) and 34	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 15:11
L34	56	(sprayhead spray near (spout spigot nozzle)) near (illuminated lit illumed lighted lighting illumination light)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/03/13 15:11

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L36	1	(illumination device supported housing illumination device including substrate plurality light emitters supported substrate translucent light pipe defining closed loop diffuse light light emitters outwardly housing).clm.	US-PGPUB; USPAT	WITH	ON	2019/03/13 15:15
L37	1	(illumination device supported housing illumination device including substrate plurality light emitters supported substrate translucent light pipe including outer illumination surface extending perpendicular longitudinal axis translucent light pipe defining closed loop diffuse light light emitters outwardly outer illumination surface).clm.	US-PGPUB; USPAT	WITH	ON	2019/03/13 15:33
L39	1	(F21V33/004 F21S9/046 F21V7/0066 F21V23/0464,0471,0442 E03C1/02 F21S10/002 B05B1/185 F21Y2103/33 F21S10/00 H05K2201/10106 H05K1/181 H05K2201/10287,10522 F21W2131/30 F21Y2115/10).cpc. and (36 37 38)	US-PGPUB; USPAT	OR	ON	2019/03/13 15:35
L38	0	(illumination device supported housing illumination device including substrate plurality light emitters supported substrate translucent light pipe defining closed loop diffuse light light emitters outwardly housing surrounding water outlet).clm.	US-PGPUB; USPAT	WITH	ON	2019/03/13 15:35
L40	1	(A61L2209/12 F21W2131/30 F21V33/0044).cpc. and (36 37 38)	US-PGPUB; USPAT	OR	ON	2019/03/13 15:36

3/ 13/ 2019 3:48:32 PM

C:\Users\jdiaz1\Documents\EAST\Workspaces\15958674 ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS.wsp

Bibliographic Data

Application No: 15/958,674

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☐ No ☐ Met After Allowance

Verified and Acknowledged:

/JOSE M DIAZ/

Examiner's Signature

Initials

Title:

ILLUMINATION DEVICE FOR A FLUID DELIVERY
APPARATUS

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
04/20/2018	362	2879	DFC-5327-01-US
RULE			

APPLICANTS

Delta Faucet Company, Indianapolis, IN,

INVENTORS

Casey S. Weaver Carmel, IN, UNITED STATES

Martin Jennings Kimbell Wauconda, IL, UNITED STATES

Alisha Buescher Jamestown, IN, UNITED STATES

Gerald R. Hayes Lebanon, IN, UNITED STATES

CONTINUING DATA

This application has PRO of 62490008 04/25/2017

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

05/14/2018

STATE OR COUNTRY

UNITED STATES

ADDRESS

Masco Corporation

Faegre Baker Daniels LLP

300 North Meridian Street

Suite 2700

Indianapolis, IN 46204

UNITED STATES

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/958,674	04/20/2018	Casey S. Weaver	DFC-5327-01-US	8038
79958	7590	06/11/2019	EXAMINER	
Masco Corporation Faegre Baker Daniels LLP 300 North Meridian Street Suite 2700 Indianapolis, IN 46204			DIAZ, JOSE	
			ART UNIT	PAPER NUMBER
			2879	
			NOTIFICATION DATE	DELIVERY MODE
			06/11/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

douglas.yerkeson@faegrebd.com
intear@faegrebd.com

Corrected Notice of Allowability	Application No. 15/958,674	Applicant(s) Weaver et al.	
	Examiner JOSE M DIAZ	Art Unit 2879	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the information disclosure statements (IDS) submitted on March 19, 2019 and March 20, 2019.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-24 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file areply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 03/19/2019, 03/20/2019.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/JOSEPH L WILLIAMS/ Primary Examiner, Art Unit 2879	/JOSE M DIAZ/ Examiner, Art Unit 2879
--	--

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Information Disclosure Statement

The information disclosure statements (IDS) submitted on March 19, 2019 and March 20, 2019 are being considered by the examiner.

Allowable Subject Matter

Claims 1-24 are allowed.

The examiner's statement of reasons for allowance stands as previously indicated.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSE M. DIAZ whose telephone number is (571)272-9822. The examiner can normally be reached on Monday-Friday 8:00-4:00.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JOSE M DIAZ/
Examiner, Art Unit 2879

/JOSEPH L WILLIAMS/
Primary Examiner, Art Unit 2879

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	1	of	11	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	Cite No.	DOCUMENT NUMBER	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	AA	US 2,036,567	04-07-1936	Cannon	
	AB	US 2,105,632	01-18-1938	Bernesseer	
	AC	US 2,274,893	03-03-19421	Freedman	
	AD	US 2,598,357	05-27-1952	Coleman	
	AE	US 2,631,393	03-17-1953	Hetherington	
	AF	US 3,810,250	05-07-1974	McGregor	
	AG	US 3,812,340	05-21-1974	Brandt	
	AH	US 3,334,745	08-08-1967	Burgess et al.	
	AI	US 3,998,240	12-21-1976	Liautaud	
	AJ	US 4,037,624	07-26-1977	Turner et al.	
	AK	US 4,088,880	05-09-1978	Walsh	
	AL	US 4,186,761	02-05-1980	Guarnieri	
	AM	US 4,241,868	12-30-1980	Perkins	
	AN	US 4,268,893	05-19-1981	Harrigan	
	AO	US 4,305,117	12-08-1981	Evans	
	AP	US 4,353,056	10-05-1982	Tsikos	
	AQ	US 4,549,250	10-22-1985	Spector	
	AR	US 4,564,889	01-14-1986	Bolson	
	AS	US 4,616,298	10-07-1986	Bolson	
	AT	US 4,623,451	11-18-1986	Oliver	

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		Country Code-Number-Kind Code (if known)				
	AU	GB2077470A	12-16-1981	Perkins		
	AV	CA1135365A	11-09-1982	Perkins		
	AW	DE3135861A1	03-24-1983	Friedrich Grohe Armaturenfabrik GmbH		English Abstract
	AX	DE3508680A1	09-04-1986	Ideal Standard GmbH		English Abstract
	AY	WO9112896A1	09-05-1991	Buechler et al.		English Abstract
	AZ	DE9109457U1	10-10-1991	Berenz		Abstract Unavailable
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Number-Kind Code (if known)			
	BA	US 4,630,940	12-23-1986	Ostertag et al.	
	BB	US 4,667,987	05-26-1987	Knebel	
	BC	US 4,744,895	05-17-1988	Gales et al.	
	BD	US 4,749,126	06-07-1988	Kessener et al.	
	BE	US 4,762,611	08-09-1988	Schipper	
	BF	US 4,849,098	07-18-1989	Wilcock et al.	
	BG	US 4,854,498	08-08-1989	Stayton	
	BH	US 4,856,121	08-15-1989	Traylor	
	BI	US 4,885,081	12-05-1989	Oliver	
	BJ	US 4,894,647	01-16-1990	Walden, Jr. et al.	
	BK	US 4,901,922	02-20-1990	Kessener et al.	
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	BM	US 4,994,792	02-19-1991	Ziegler, Jr.	
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Examiner Initials *	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	BU	GB2281797A	03-15-1995	Woolley		
	BV	DE4340933A1	06-08-1995	Friedrich Grohe AG & Co.		English Abstract
	BW	EP0679770A2	11-02-1995	Lepel		English Abstract
	BX	WO1995029300A1	11-02-1995	Li		
	BY	GB2288974A	11-08-1995	Li		
	BZ	JPH0893017A	04-09-1996	Inax Corp.		English Abstract
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

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		Number-Kind Code (if known)			
	CA	US 5,195,819 A	03-23-1993	Chaut et al.	
	CB	US 5,220,488 A	06-15-1993	Denes	
	CC	US 5,224,509 A	07-06-1993	Tanaka et al.	
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	CF	US 5,276,595 A	01-04-1994	Patrie	
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	CT	US 5,758,688 A	06-02-1998	Hamanaka et al.	

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	CU	DE19638788A1	03-26-1998	Hans Grohe GmbH & Co KG		English Abstract
	CV	DE19639802A1	04-02-1998	Hans Grohe GmbH & Co KG		English Abstract
	CW	GB2288974B	09-30-1998	Li		
	CX	GB2323696A	09-30-1998	IMI Cornelius (NZ) Limited		
	CY	JPH10332490A	12-18-1998	So Kunihiro		English Abstract
	CZ	EP0961067A2	12-01-1999	Ideal Standard S.R.L.		
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

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jansc01.121858748.1.DOCX ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.M.D./

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		Country Code-Number-Kind Code (if known)				
	DU	DE19822966A1	12-02-1999	Zimmerman		English Abstract
	DV	WO2000032314A1	06-08-2000	The Unique Company Limited NZ		
	DW	EP1022396A2	07-26-2000	Hans Grohe AG		English Abstract
	DX	JP2001012646A	01-16-2001	Toto Ltd.		English Abstract
	DY	JP2001120448A	05-08-2001	Inax Corp.		English Abstract
	DZ	JP2001123485A	05-08-2001	Inax Corp.		English Abstract
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

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	EB	US 6,370,712 B1	04-16-2002	Burns et al.	
	EC	US 6,370,965 B1	04-16-2002	Knapp	
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	EE	US 6,385,794 B1	05-14-2002	Miedzius et al.	
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	EH	US 6,434,765 B1	08-20-2002	Burns et al.	
	EI	US 6,439,472 B1	08-27-2002	Lin et al.	
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	EK	US 6,478,440 B1	11-12-2002	Jaworski et al.	
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	EP	US 6,551,722 B2	04-22-2003	Jonte et al.	
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		Country Code-Number-Kind Code (if known)				
	EU	JP2001123486A	05-08-2001	Inax Corp.		English Abstract
	EV	WO2001034917A1	05-17-2001	Bleschschmidt		English Abstract
	EW	JP2001146774A	05-29-2001	Inax Corp.		English Abstract
	EX	JP2001182109A	07-03-2001	Inax Corp.		English Abstract
	EY	CN2438270Y	07-04-2001	Jichun		English Abstract
	EZ	JP2001189106A	07-10-2001	Inax Corp.		English Abstract
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

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	FA	US 6,685,890 B1	02-03-2004	Van Remmen	
	FB	US 6,702,451 B1	03-09-2004	Daane	
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	FK	US 6,774,584 B2	08-10-2004	Lys et al.	
	FL	US 6,792,629 B2	09-21-2004	Nelson et al.	
	FM	US 6,803,133 B2	10-12-2004	Chen	
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	FO	US 6,874,527 B2	04-05-2005	Meeder	
	FP	US 6,909,101 B2	06-21-2005	Nishioka	
	FQ	US 6,962,168 B2	11-08-2005	McDaniel et al.	
	FR	US 7,008,073 B2	03-07-2006	Stuhlmacher, II	
	FS	US 7,017,600 B2	03-28-2006	Klein	
	FT	US 7,104,519 B2	09-12-2006	O'Maley et al.	

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		Country Code-Number-Kind Code (if known)				
	FU	JP2001252647A	09-18-2001	Techno Excel Co. Ltd.		English Abstract
	FV	WO2001077577A1	10-18-2001	Gasparotto		
	FW	JP2001295344A	10-26-2001	Inax Corp.		English Abstract
	FX	JP2001323531A	11-22-2001	Inax Corp.		English Abstract
	FY	JP2002042546A	02-08-2002	Inax Corp.		English Abstract
	FZ	DE10042722A1	03-14-2002	Grigull et al.		English Abstract
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	GA	US 7,150,293 B2	12-19-2006	Jonte	
	GB	US 7,174,577 B2	02-13-2007	Jost et al.	
	GC	US 7,175,158 B2	02-13-2007	Thomas	
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	GJ	US 7,404,649 B2	07-20-2008	Gosis et al.	
	GK	US 7,406,980 B2	08-05-2008	Pinette	
	GL	US 7,415,991 B2	08-26-2008	Meehan et al.	
	GM	US 7,434,960 B2	10-14-2008	Stuhlmacher, II et al.	
	GN	US 7,743,788 B2	06-29-2010	Schmitt et al.	
	GO	US 7,467,874 B2	12-23-2008	Gautschi et al.	
	GP	US 7,518,381 B2	04-14-2009	Lamborghini et al.	
	GQ	US 7,537,023 B2	05-26-2009	Marty et al.	
	GR	US 7,628,512 B2	12-08-2009	Netzel, Sr. et al.	
	GS	US 7,631,372 B2	12-15-2009	Marty et al.	
	GT	US 7,633,055 B2	12-15-2009	Nall et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	GU	DE10128688A1	03-28-2002	Emde et al.		English Abstract
	GV	CN2488597Y	05-01-2002	Zhengyue		English Abstract
	GW	WO02061330A2	08-08-2002	Color Kinetics Incorporated		
	GX	JP2002242245A	08-28-2002	Inax Corp.		English Abstract
	GY	JP2002242246A	08-28-2002	Inax Corp.		English Abstract
	GZ	JP2002266393A	09-18-2002	Inax Corp.		English Abstract
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

jansc01.121858748.1.DOCX ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.M.D./

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	8	of	11	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	Cite No.	DOCUMENT NUMBER	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	HA	US 7,666,497 B2	02-23-2010	Takatsuki et al.	
	HB	US 7,690,395 B2	04-06-2010	Jonte et al.	
	HC	US 7,717,133 B2	05-18-2010	Pinette et al.	
	HD	US 7,721,761 B2	05-25-2010	Thomas	
	HE	US 7,743,788 B2	06-29-2010	Schmitt et al.	
	HF	US 7,748,409 B2	07-06-2010	Pinette et al.	
	HG	US 7,766,043 B2	08-03-2010	Thomas et al.	
	HH	US 7,793,677 B2	09-14-2010	Pinette	
	HI	US 7,806,141 B2	10-05-2010	Marty et al.	
	HJ	US 7,819,137 B2	10-26-2010	Nelson et al.	
	HK	US 7,819,541 B2	10-26-2010	Kunkel	
	HL	US 7,850,323 B2	12-14-2010	Keiper et al.	
	HM	US 7,883,261 B2	02-08-2011	Yu	
	HN	US 7,896,025 B2	03-01-2011	Hanson	
	HO	US 8,127,782 B2	03-06-2012	Jonte et al.	
	HP	US 8,162,236 B2	04-24-2012	Rodenbeck et al.	
	HQ	US 8,198,979 B2	06-12-2012	Haag et al.	
	HR	US 8,277,070 B1	10-02-2012	Schwarz	
	HS	US 9,057,184 B2	06-16-2015	Meehan et al.	
	HT	US 9,333,698 B2	05-10-2016	DeVries et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	HU	JP2002266394A	09-18-2002	Inax Corp.		English Abstract
	HV	JP2002294775A	10-09-2002	Inax Corp.		English Abstract
	HW	JP2002364035A	12-18-2002	Inax Corp.		English Abstract
	HX	JP2003027537A	01-29-2003	Inax Corp.		English Abstract
	HY	JP2003027543A	01-29-2003	Inax Corp.		English Abstract
	HZ	JP2003056027A	02-26-2003	Inax Corp.		English Abstract
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	9	of	11	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
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		Number-Kind Code (if known)			
	IA	US 2002/0150798 A1	10-17-2002	Jonte et al.	
	IB	US 2002/0171378 A1	11-21-2002	Morgan et al.	
	IC	US 2003/0147238 A1	08-07-2003	Allen et al.	
	ID	US 2003/0213062 A1	11-20-2003	Honda et al.	
	IE	US 2003/0223222 A1	12-04-2003	Yu	
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	II	US 2005/0257628 A1	11-24-2005	Nikaido et al.	
	IJ	US 2006/0124183 A1	06-15-2006	Kuo	
	IK	US 2006/0157127 A1	07-20-2006	Bors et al.	
	IL	US 2006/0157128 A1	07-20-2006	Frackowiak et al.	
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	IN	US 2006/0283511 A1	12-21-2006	Nelson	
	IO	US 2007/0031624 A1	02-08-2007	Brosius	
	IP	US 2007/0069418 A1	03-29-2007	Liao et al.	
	IQ	US 2007/0121326 A1	05-31-2007	Nall et al.	
	IR	US 2007/0137714 A1	06-21-2007	Meehan et al.	
	IS	US 2007/0241977 A1	10-18-2007	Vance	
	IT	US 2007/0273394 A1	11-29-2007	Tanner et al.	

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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	IU	JP2003064743A	03-05-2003	Inax Corp.		English Abstract
	IV	DE10144602A1	04-03-2003	Wolfgang		English Abstract
	IW	JP2003119854A	04-23-2003	Inax Corp.		English Abstract
	IX	JP2003147823A	05-21-2003	Inax Corp.		English Abstract
	IY	JP2003213745A	07-30-2003	San El Faucet Mfg. Co. Ltd.		English Abstract
	IZ	JP2003232059A	08-19-2003	Uro Electronics Co. Ltd.		English Abstract
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	10	of	11	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	Cite No.	DOCUMENT NUMBER	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	JA	US 2008/0099091 A1	05-01-2008	Benstead	
	JB	US 2008/0109956 A1	05-15-2008	Bayley et al.	
	JC	US 2008/0178935 A1	07-31-2008	Thomas	
	JD	US 2008/0178954 A1	07-31-2008	Pinette et al.	
	JE	US 2008/0185060 A1	08-07-2008	Nelson	
	JF	US 2008/0257706 A1	10-23-2008	Haag	
	JG	US 2008/0308165 A1	12-18-2008	Meehan et al.	
	JH	US 2009/0000026 A1	01-01-2009	Hanson	
	JI	US 2009/0039176 A1	02-12-2009	Davidson et al.	
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	JK	US 2009/0276954 A1	11-12-2009	Davidson	
	JL	US 2010/0117660 A1	05-13-2010	Douglas et al.	
	JM	US 2010/0180375 A1	07-22-2010	Meehan et al.	
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	JR	US 2011/0187957 A1	08-04-2011	Kim et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	JU	JP2003293405A	10-15-2003	Inax Corp.		English Abstract
	JV	JP2003293406A	10-15-2003	Inax Corp.		English Abstract
	JW	JP2004116083A	04-15-2004	Toto Ltd.		English Abstract
	JX	CN201250949Y	06-03-2009	Chen		English Abstract
	JY	WO2010120070A2	10-21-2010	Top Nanosys Inc.		English Abstract
	JZ	WO2010120070A3	01-13-2011	Top Nanosys Inc.		English Abstract
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	11	of	11	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	Cite No.	DOCUMENT NUMBER	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	KA	US 2012/0188179 A1	07-26-2012	Karlsson	
	KB	US 2012/0200517 A1	08-09-2012	Nikolovski	
	KC	US 2012/0223805 A1	09-06-2012	Haag et al.	
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	KE	US 2013/0299608 A1	11-14-2013	Spangler et al.	
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	KG	US 2015/0040997 A1	02-12-2015	Blake et al.	
	KH	US 2015/0292693 A1	10-15-2015	Franke	
	KI	US 2018/0306429 A1	10-25-2018	Rosko et al.	
	KJ				
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	KU	DE102013002236A1	08-14-2014	Grohe AG		English Abstract
	KV	WO 2009/158498	12-30-2009	Masco Corp.		
	KW					
	KX					
	KY					
	KZ					
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

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Receipt date: 03/20/2019

PTO SB08/A

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/958,674
				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
				Examiner Name	Jose Diaz
Sheet	1	of	1	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	Cite No.	DOCUMENT NUMBER	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	AA				
	AB				
	AC				
	AD				
	AE				
	AF				
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	AL				
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	AN				
	AO				
	AP				
	AQ				
	AR				
	AS				
	AT				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	AU	JP 2003171958 A	06-20-2003	Inax Corp.		Abstract
	AV	GB 2288974A	11-08-1995	Li		
	AW	DE 102013002236 A1	08-14-2014	Grohe AG		Abstract
	AX					
	AY					
	AZ					
Examiner Signature		/JOSE M DIAZ/		Date Considered	05/14/2019	

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US.122432210.01 ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.M.D./

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

79958 7500 03/21/2019
Masco Corporation
Faegre Baker Daniels LLP
300 North Meridian Street
Suite 2700
Indianapolis, IN 46204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Type or printed name)
VIA ELECTRONIC FILING
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/58,674	04/20/2018	Casey S. Weaver	DFC-5327-01-US	8038

TITLE OF INVENTION: ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	06/21/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
DIAZ, JOSE	2879	362-096000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 Faegre Baker Daniels LLP (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3
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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Delta Faucet Company

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Indianapolis, IN

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 02-0390

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Douglas A. Yerkeson/

Date June 19, 2019

Typed or printed name Douglas A. Yerkeson

Registration No. 39,882

Electronic Patent Application Fee Transmittal				
Application Number:		15958674		
Filing Date:		20-Apr-2018		
Title of Invention:		ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		
First Named Inventor/Applicant Name:		Casey S. Weaver		
Filer:		Douglas Alan Yerkeson/Patsy Fonseca		
Attorney Docket Number:		DFC-5327-01-US		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Electronic Acknowledgement Receipt	
EFS ID:	36342343
Application Number:	15958674
International Application Number:	
Confirmation Number:	8038
Title of Invention:	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
First Named Inventor/Applicant Name:	Casey S. Weaver
Customer Number:	79958
Filer:	Douglas Alan Yerkeson/Patsy Fonseca
Filer Authorized By:	Douglas Alan Yerkeson
Attorney Docket Number:	DFC-5327-01-US
Receipt Date:	19-JUN-2019
Filing Date:	20-APR-2018
Time Stamp:	11:31:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1000
RAM confirmation Number	061919INTEFSW11321901
Deposit Account	020390
Authorized User	Patsy Fonseca
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.21 (Miscellaneous fees and charges)	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	20190619_DFC-5327-01-US_IssueFeeTransmittal.pdf	100893	no	1
			a9243b3783ef48fc2b8f97015bde55eeefec2279		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30362	no	2
			fc47715cfbf29d33793ada22f99ce4fd096b3660		
Warnings:					
Information:					
Total Files Size (in bytes):			131255		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Receipt date: 03/19/2019

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				Filing Date	04/20/2018
				First Named Inventor	Casey S. Weaver
				Art Unit	2879
Examiner Name	Jose Diaz				
Sheet	1	of	11	Attorney Docket Number	DFC-5327-01-US

U.S. PATENT DOCUMENTS

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		Number-Kind Code (if known)			
	AA	US 2,036,567	04-07-1936	Cannon	
	AB	US 2,105,632	01-18-1938	Bernesseeer	
	AC	US 2,274,893	~~03-03-1942~~	Freedman	
	AD	US 2,598,357	05-27-1952	Coleman	
	AE	US 2,631,393	03-17-1953	Hetherington	
	AF	US 3,810,250	05-07-1974	McGregor	
	AG	US 3,812,340	05-21-1974	Brandt	
	AH	US 3,334,745	08-08-1967	Burgess et al.	
	AI	US 3,998,240	12-21-1976	Liautaud	
	AJ	US 4,037,624	07-26-1977	Turner et al.	
	AK	US 4,088,880	05-09-1978	Walsh	
	AL	US 4,186,761	02-05-1980	Guarnieri	
	AM	US 4,241,868	12-30-1980	Perkins	
	AN	US 4,268,893	05-19-1981	Harrigan	
	AO	US 4,305,117	12-08-1981	Evans	
	AP	US 4,353,056	10-05-1982	Tsikos	
	AQ	US 4,549,250	10-22-1985	Spector	
	AR	US 4,564,889	01-14-1986	Bolson	
	AS	US 4,616,298	10-07-1986	Bolson	
	AT	US 4,623,451	11-18-1986	Oliver	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				
	AU	GB2077470A	12-16-1981	Perkins		
	AV	CA1135365A	11-09-1982	Perkins		
	AW	DE3135861A1	03-24-1983	Friedrich Grohe Armaturenfabrik GmbH		English Abstract
	AX	DE3508680A1	09-04-1986	Ideal Standard GmbH		English Abstract
	AY	WO9112896A1	09-05-1991	Buechler et al.		English Abstract
	AZ	DE9109457U1	10-10-1991	Berenz		Abstract Unavailable

Examiner Signature /JOSE M DIAZ/ Date Considered 05/14/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

jansc01.121858748.1.DOCX

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.M.D./

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)

Approved for use through 11/30/2020. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)**

Application Number	15958674	Filing Date	2018-04-20	Docket Number (if applicable)	DFC-5327-01-US	Art Unit	2875
First Named Inventor	Casey S. Weaver			Examiner Name	Jose Diaz		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____☐ Other _____☒ Enclosed☐ Amendment/Reply☒ Information Disclosure Statement (IDS)☐ Affidavit(s)/ Declaration(s)☐ Other _____**MISCELLANEOUS**☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)☐ Other _____**FEES****The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to
Deposit Account No 020390**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED**☒ Patent Practitioner Signature

Applicant Signature

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Signature of Registered U.S. Patent Practitioner			
Signature	Douglas A. Yerkeson/	Date (YYYY-MM-DD)	2019-07-11
Name	Douglas A. Yerkeson	Registration Number	39882

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		15958674		
Filing Date:		20-Apr-2018		
Title of Invention:		ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS		
First Named Inventor/Applicant Name:		Casey S. Weaver		
Filer:		Douglas Alan Yerkeson/Constance Conner		
Attorney Docket Number:		DFC-5327-01-US		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
PETITION FEE- 37 CFR 1.17(H) (GROUP III)	1464	1	140	140
RCE- 1ST REQUEST	1801	1	1300	1300
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1440



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Decision Date : July 11, 2019

In re Application of :

Casey Weaver

DECISION ON PETITION

UNDER CFR 1.313(c)(2)

Application No : 15958674

Filed : 20-Apr-2018

Attorney Docket No : DFC-5327-01-US

This is an electronic decision on the petition under 37 CFR 1.313(c)(2), filed July 11, 2019 , to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED**.

The above-identified application is withdrawn from issue for consideration of a submission under 37 CFR 1.114 (request for continued examination). See 37 CFR 1.313(c)(2).

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

This application file is being referred to Technology Center AU 2879 for processing of the request for continuing examination under 37 CFR 1.114 .

Office of Petitions

Electronic Acknowledgement Receipt	
EFS ID:	36558335
Application Number:	15958674
International Application Number:	
Confirmation Number:	8038
Title of Invention:	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS
First Named Inventor/Applicant Name:	Casey S. Weaver
Customer Number:	79958
Filer:	Douglas Alan Yerkeson/Constance Conner
Filer Authorized By:	Douglas Alan Yerkeson
Attorney Docket Number:	DFC-5327-01-US
Receipt Date:	11-JUL-2019
Filing Date:	20-APR-2018
Time Stamp:	15:25:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$1440
RAM confirmation Number	071219INTEFSW00001910020390
Deposit Account	020390
Authorized User	Constance Conner
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)
37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition automatically granted by EFS	petition-request.pdf	31616	no	2
			2597454c6a9833820440d4a2d6f2cb13e5117540		
Warnings:					
Information:					
2	Quick Path Information Disclosure Statement	DFC-5327-01-US_QPIDS_Transmittal.pdf	178648	no	2
			61115477e63dc13339aac3c65cc911d3e9561b11		
Warnings:					
Information:					
3	Request for Continued Examination (RCE)	DFC-5327-01-US_RCE.pdf	1349953	no	3
			6484a03f2caa83e09d4283e816d30550af13639b		
Warnings:					
Information:					
4	Other Reference-Patent/App/Search documents	DFC-5327-01-US_IDS_CN201354883.pdf	7425031	no	20
			fbxc6ded3a6734bcb6f89c2559531988cc3c39d52d		
Warnings:					
Information:					
5	Other Reference-Patent/App/Search documents	DFC-5327-01-US_IDS_CN201407414.pdf	5392296	no	12
			f74d075d8f1c111b96bb68520e6fe48836930745		
Warnings:					
Information:					
6	Quick Path Information Disclosure Statement	DFC-5327-01-US_IDS_SB08-2.pdf	739443	no	4
			d46b9feea0ae4b716bc7ff4e0a13277403a8f14b		
Warnings:					
Information:					

7	Quick Path Information Disclosure Statement	DFC-5327-01-US_IDS2_SB08-2.pdf	756347	no	4
			5828a196c471730e5a0a2bb687cf3e74fae28a7b		
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	32243	no	2
			137f49943d5bb37433fc9b066b162c8437be8d00		
Warnings:					
Information:					
Total Files Size (in bytes):			15905577		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Doc Code: PET.AUTO Document Description: Petition automatically granted by EFS-Web		PTO/SB/140 U.S. Patent and Trademark Office Department of Commerce			
Electronic Petition Request	PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)				
Application Number	15958674				
Filing Date	20-Apr-2018				
First Named Inventor	Casey Weaver				
Art Unit	2879				
Examiner Name	JOSE DIAZ				
Attorney Docket Number	DFC-5327-01-US				
Title	ILLUMINATION DEVICE FOR A FLUID DELIVERY APPARATUS				
An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary. APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c). A grantable petition requires the following items: (1) Petition fee; and (2) One of the following reasons: (a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable; (b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or (c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).					
Petition Fee <table border="1"> <tr> <td>☐ Small Entity</td> </tr> <tr> <td>☐ Micro Entity</td> </tr> <tr> <td>☒ Regular Undiscounted</td> </tr> </table>			☐ Small Entity	☐ Micro Entity	☒ Regular Undiscounted
☐ Small Entity					
☐ Micro Entity					
☒ Regular Undiscounted					
Reason for withdrawal from issue					

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 07/12/2019

KVESTAL	SALE	#00000003	Mailroom Dt:	07/11/2019	020390	15958674
		01	FC : 1806	240.00	DA	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/958,674	04/20/2018	Casey S. Weaver	DFC-5327-01-US	8038
79958	7590	07/24/2019	EXAMINER	
Masco Corporation Faegre Baker Daniels LLP 300 North Meridian Street Suite 2700 Indianapolis, IN 46204			DIAZ, JOSE	
			ART UNIT	PAPER NUMBER
			2879	
			NOTIFICATION DATE	DELIVERY MODE
			07/24/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

douglas.yerkeson@faegrebd.com
intear@faegrebd.com

Corrected Notice of Allowability	Application No. 15/958,674	Applicant(s) Weaver et al.	
	Examiner JOSE M DIAZ	Art Unit 2879	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the request for continued examination filed on 07/11/2019.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-24 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file areply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 07/11/2019.	6. ☐ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/JOSEPH L WILLIAMS/ Primary Examiner, Art Unit 2879	/JOSE M DIAZ/ Examiner, Art Unit 2879
--	--

Receipt date: 07/11/2019

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15958674	
	Filing Date		2018-04-20	
	First Named Inventor	Casey S. Weaver		
	Art Unit	2875		
	Examiner Name	Jose Diaz		
	Attorney Docket Number	DFC-5327-01-US		

U.S.PATENTS								
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Patent citation information please click the Add button.								
U.S.PATENT APPLICATION PUBLICATIONS								
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	20140198491		2014-07-17	Schlueter			
If you wish to add additional U.S. Published Application citation information please click the Add button.								
FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²ⁱ	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	201354883Y	CN		2009-12-02	Zhongheng Xingye Technology		☒
	2	201407414Y	CN		2010-02-17	Lin Junming		☒
If you wish to add additional Foreign Patent Document citation information please click the Add button								
NON-PATENT LITERATURE DOCUMENTS								

Receipt date: 07/11/2019

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	15958674
	Filing Date	2018-04-20
	First Named Inventor	Casey S. Weaver
	Art Unit	2875
	Examiner Name	Jose Diaz
	Attorney Docket Number	DFC-5327-01-US

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/JOSE M DIAZ/	Date Considered	07/18/2019
--------------------	---------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

Receipt date: 07/11/2019

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	15958674
	Filing Date	2018-04-20
	First Named Inventor	Casey S. Weaver
	Art Unit	2875
	Examiner Name	Jose Diaz
	Attorney Docket Number	DFC-5327-01-US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☒ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Douglas A. Yerkeson/	Date (YYYY-MM-DD)	2019-07-11
Name/Print	Douglas A. Yerkeson	Registration Number	39882

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

~~ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.M.D./~~

Receipt date: 07/11/2019

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15958674	
	Filing Date		2018-04-20	
	First Named Inventor	Casey S. Weaver		
	Art Unit	2875		
	Examiner Name	Jose Diaz		
	Attorney Docket Number	DFC-5327-01-US		

U.S.PATENTS								
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1							
If you wish to add additional U.S. Patent citation information please click the Add button.								
U.S.PATENT APPLICATION PUBLICATIONS								
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	20110051877		2011-03-03	Ahlfeld et al.			
	2	20160161086		2016-06-09	Kang			
	3	20160215860		2016-07-28	Thompson et al.			
	4	20160290532		2016-10-06	DEFrance			
If you wish to add additional U.S. Published Application citation information please click the Add button.								
FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵

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	1							☐
	2							☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

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EXAMINER SIGNATURE

Examiner Signature	/JOSE M DIAZ/	Date Considered	07/18/2019
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

Receipt date: 07/11/2019

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	15958674
	Filing Date	2018-04-20
	First Named Inventor	Casey S. Weaver
	Art Unit	2875
	Examiner Name	Jose Diaz
	Attorney Docket Number	DFC-5327-01-US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Douglas A. Yerkeson/	Date (YYYY-MM-DD)	2019-07-11
Name/Print	Douglas A. Yerkeson	Registration Number	39882

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/958,674	08/27/2019	10393363	DFC-5327-01-US	8038

79958 7590 08/07/2019
Masco Corporation
Faegre Baker Daniels LLP
300 North Meridian Street
Suite 2700
Indianapolis, IN 46204

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Casey S. Weaver, Carmel, IN;
Delta Faucet Company, Indianapolis, IN
Martin Jennings Kimbell, Wauconda, IL;
Alisha Buescher, Jamestown, IN;
Gerald R. Hayes, Lebanon, IN;

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