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Counsel for Plaintiff Danco, Inc.

IN THE UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA
SOUTHERN DIVISION

DANCO, INC. a Delaware corporation, Plaintiff, v. FLUIDMASTER, INC., Defendants.	Case No. 8:23-cv-01156-AB-DFM Honorable Judge Andre Birotte, Jr. **PLAINTIFF'S DISCLOSURE OF ASSERTED CLAIMS/PRELIMINARY INFRINGEMENT CONTENTIONS**

Fluidmaster, Inc. - EX1031, Page 001
IPR2024-00633 (Fluidmaster Inc v. Danco Inc)

Plaintiff Danco, Inc. ("Danco") hereby serves this Disclosure of Asserted Claims/Preliminary Infringement Contentions on Defendant Fluidmaster, Inc. ("Fluidmaster"). Simultaneously herewith, Danco is producing documents accompanying its preliminary infringement contentions.

These preliminary infringement contentions are based upon Danco's good faith evaluation of publicly available information and documents that are known to Danco at this time. Danco, therefore, reserves the right to supplement and/or amended these contentions in view of further investigation and discovery, the Court's claim construction ruling, and/or any other reason permitted under the Local Rules or Federal Rules of Civil Procedure.

I. DISCLOSURE OF ASSERTED CLAIMS

A. Each claim of each patent in suit that is allegedly infringed by each opposing party, including for each claim the applicable statutory subsections of 35 U.S.C. §271 asserted

At the present time, and subject to its express reservation of rights to supplement or amend these contentions as may be appropriate in view of further discovery, further investigation, and/or the Court's claim construction ruling, Danco alleges that Fluidmaster has infringed one or more of at least the following claims pursuant to 35 U.S.C. § 271(a), (b), (c), and (f):

1. U.S. Patent No. 9,103,105 ("the '105 Patent") – Claims 1-7, 9, 11-18, 20-24;
2. U.S. Patent No. 9,139,993 ("the '993 Patent") – Claims 1-5, 8, 10-17, 19-20; and
3. U.S. Patent No. 10,934,698 ("the '698 Patent") – Claims 1-14.

II. PRELIMINARY INFRINGEMENT CONTENTIONS

A. Each accused apparatus, product, device, process, method, act, or other instrumentality ("Accused Instrumentality") of each opposing party of which the party is aware. This identification shall be as specific as possible. Each product, device, and apparatus shall be identified by name or model number, if known. Each method or process shall be identified by name, if known, or by any product, device, or

Fluidmaster, Inc. - EX1031, Page 002
IPR2024-00633 (Fluidmaster Inc v. Danco Inc)

apparatus which, when used, allegedly results in the practice of the claimed method or process.

At the present time, and subject to its express reservation of rights to supplement or amend these contentions as may be appropriate in view of further disclosures by Fluidmaster, discovery, further investigation, and/or the Court's claim construction ruling, Danco identifies the following Fluidmaster fill valves, as follows:

1. Fluidmaster 400H series fill valves and kits including/utilizing 400H series fill valves or their equivalent(s);
2. Fluidmaster PRO45H series fill valves and kits including/utilizing PRO45H series fill valves or their equivalent(s);
3. Fluidmaster 400A series fill valves and kits including/utilizing 400A series fill valves or their equivalent(s); and
4. Fluidmaster PRO45U/PRO45HR series valves and kits including/utilizing PRO45U/PRO45HR series fill valves or their equivalent(s).

B. A chart identifying specifically where and how each limitation of each asserted claim is found within each Accused Instrumentality, including for each limitation that such party contends is governed by 35 U.S.C. § 112(6), the identity of the structure(s), act(s), or material(s) in the Accused Instrumentality that performs the claimed function.

At the present time, and subject to its express reservation of rights to supplement or amend these contentions as may be appropriate in view of further discovery, further investigation, and/or the Court's claim construction ruling, Danco will serve preliminary infringement claims charts for the asserted patents and Accused Instrumentalities contemporaneously herewith as Exhibits A-J.

C. For each claim which is alleged to have been indirectly infringed, an identification of any direct infringement and a description of the acts of the alleged indirect infringer that contribute to or are inducing that direct infringement. Insofar as alleged direct infringement is based on joint acts of multiple parties, the role of each such party in the direct infringement must be described.

Fluidmaster, Inc. - EX1031, Page 003
IPR2024-00633 (Fluidmaster Inc v. Danco Inc)

Danco contends that Fluidmaster indirectly infringed and continues to infringe the above-identified patents and claims by actively inducing, encouraging, and/or materially contributing to the infringement by directing, instructing, and encouraging its employees, distributors, and/or customers to install and use the Accused Instrumentalities in an infringing manner. Specifically, Fluidmaster has directed, instructed, and encouraged it employees, distributors, and/or customers to install and use the Accused Instrumentalities in an infringing manner in its product packaging and product advertising, by providing support and technical assistance, by providing demonstrations, and by providing instructions or instructional materials. When using, assembling, or installing the Accused Instrumentalities in accordance with Fluidmaster's directions and instructions, purchasers and users of Fluidmaster's Accused Instrumentalities directly infringe the asserted claims of the above-asserted patents. Further, Fluidmaster was and is aware that the Accused Instrumentalities are especially made for or adapted for use in a manner that infringes the above-asserted patents and claims, and Fluidmaster is further aware that the Accused Instrumentalities are not staple articles or commodities of commerce suitable for non-infringing use and, in fact, have no non-infringing use.

D. Whether each limitation of each asserted claim is alleged to be literally present or present under the doctrine of equivalents in the Accused Instrumentality

At the present time, and subject to its express reservation of rights to supplement or amend these contentions as may be appropriate in view of further discovery, further investigation, and/or the Court's claim construction ruling, Danco claims that each element of each asserted claim is literally present in each of the Accused Instrumentalities. To the extent not literally present, Danco claims that each element of each asserted claim is present under the doctrine of equivalents in the Accused Instrumentalities.

E. For any patent that claims priority to an earlier application, the priority date to which each asserted claim allegedly is entitled

At the present time, and subject to its express reservation of rights to supplement or amend these contentions as may be appropriate in view of further discovery, and/or further investigation, Danco states the following:

- The claims of the '105 Patent claim priority to earlier U.S. patent application No. 10/798,606, filed on Mar. 11, 2004.
- The claims of the '993 Patent claim priority to earlier U.S. patent application No. No. 10/798,606, filed on Mar. 11, 2004.
- The claims of the '698 Patent claim priority to earlier U.S. patent application No. No. 10/798,606, filed on Mar. 11, 2004.

F. If a party claiming patent infringement alleges willful infringement, the basis for such allegation.

Upon information and belief, at least as early as the issue date of each of the asserted patents, Fluidmaster had notice of the above-asserted patents and notice that it infringed and continues to infringe the above-asserted patents. With notice of the above-asserted patents and infringement thereof, Fluidmaster made, offered to sell, and sold its Accused Instrumentalities and continues to make, offer to sell, and sell its Accused Instrumentalities, despite an objectively high likelihood that its actions constituted infringement of the patents, a likelihood that was either known or so obvious that it should have been known to Fluidmaster. Notwithstanding knowledge of its infringement, Fluidmaster deliberately and intentionally continued to make, offer to sell, and sell its Accused Instrumentalities and continues to make, offer to sell, and sell its Accused Instrumentalities. Danco expressly reserves the right to supplement or amend these contentions in view of further discovery and/or in view of further investigation.

Danco expressly reserves its right to supplement this document production as may be appropriate in view of further discovery and/or further investigation.

DATED: February 23, 2024

PERILLA KNOX & HILDEBRANDT LLP

BY: */s/ Eric G. Maurer*

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Counsel for Plaintiff Danco, Inc.

CERTIFICATE OF SERVICE

I hereby certify that on February 24, 2024, a true and correct copy of the foregoing PLAINTIFF'S DISCLOSURE OF ASSERTED CLAIMS/PRELIMINARY INFRINGEMENT CONTENTIONS has been served by electronic mail pursuant to Federal Rule of Civil Procedure 5(b)(2)(E), with a copy sent to all attorneys of record for Fluidmaster, Inc:

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DATED: February 24, 2024

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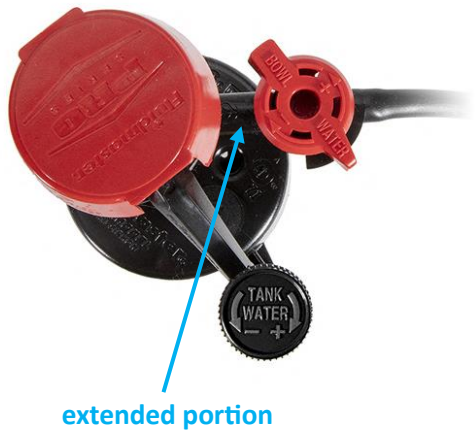
EXHIBIT A

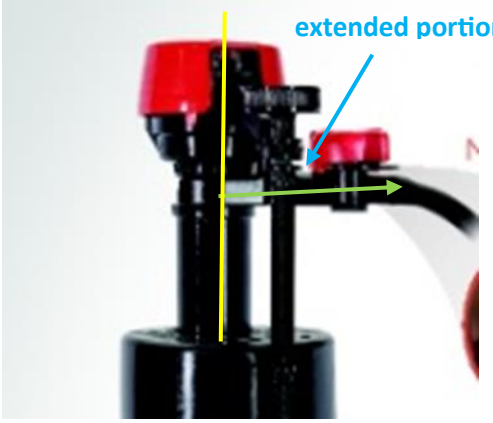
DANCO'S PRELIMINARY INFRINGEMENT CONTENTIONS

Danco, Inc. v. Fluidmaster, Inc.
Case No. Case No. 8:23-cv-01156-AB-DFM

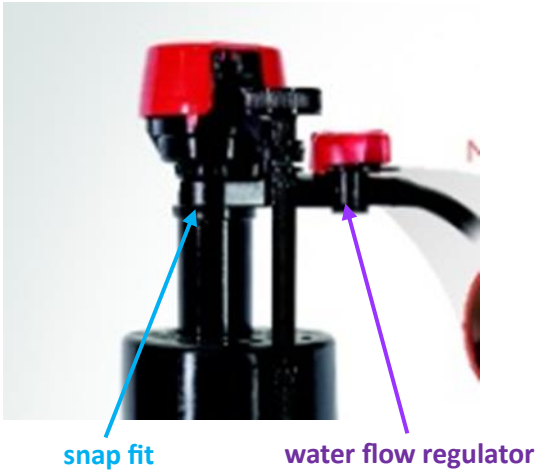
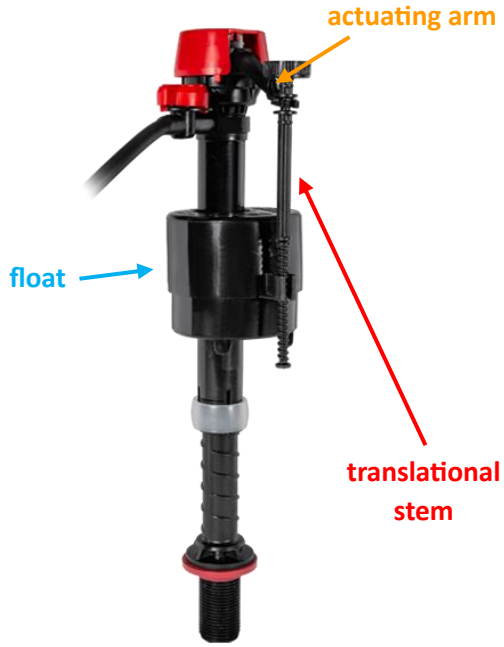
U.S. Patent No. 9,103,105	
Claim	**Fluidmaster PRO45H series fill valves and kits including/utilizing PRO45H series fill valves or their equivalent(s)**
1. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:

a body comprising an extended portion, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port;	

a water inlet configured to receive water from a water source; and a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	

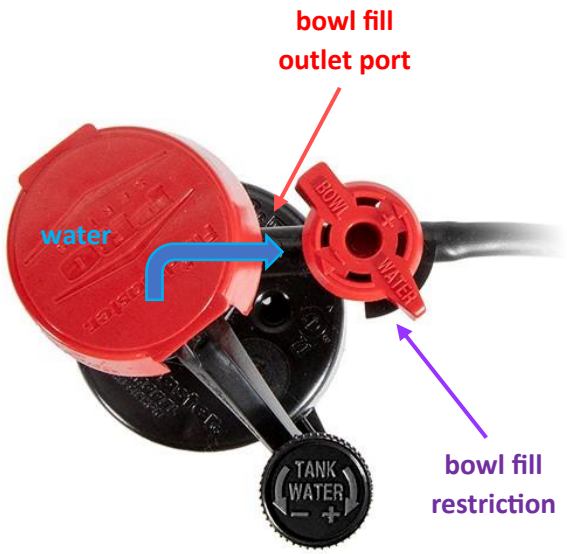
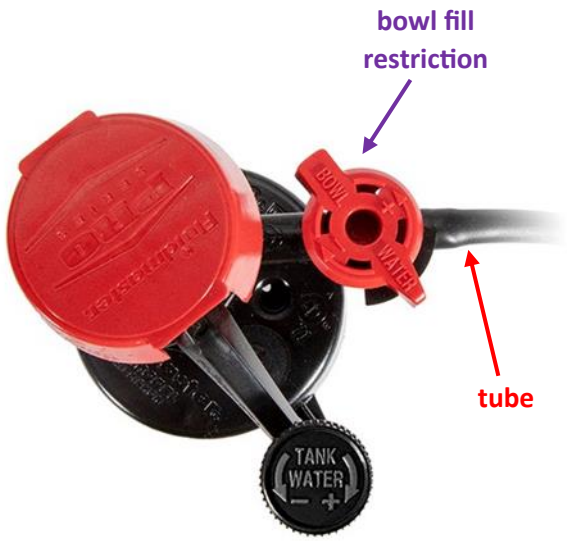
a bowl fill restriction configured to attach directly to the extended portion of the body, wherein the bowl fill restriction comprises a protrusion that is configured to insert into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the body, wherein the bowl fill restriction is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the restriction is configured to constrict a flow rate of the second portion of the water that flows through the bowl fill restriction; and	 **restriction inserts into extended portion**
a tube that is configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction directly to a toilet tank overflow tube.	 **tube directs water to overflow**
2. The system of claim 1, wherein the extended portion of the body extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)

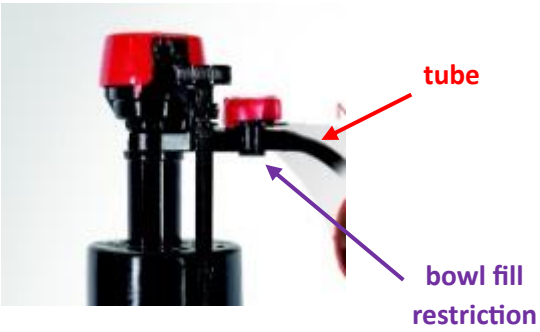
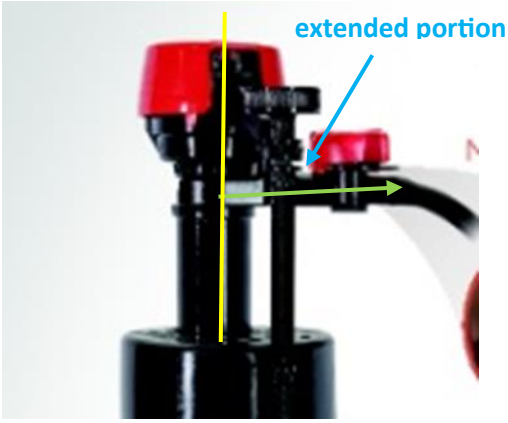
3. The system of claim 1, wherein a portion of the bowl fill restriction is configured to insert into the extended portion of the body.	 **restriction inserts into extended portion**
4. The system of claim 1, wherein the bowl fill restriction is configured to be clamped to the extended portion of the body.	**Bowl fill restriction** as depicted above clamps onto the extended portion **clamp** **bowl fill restriction**

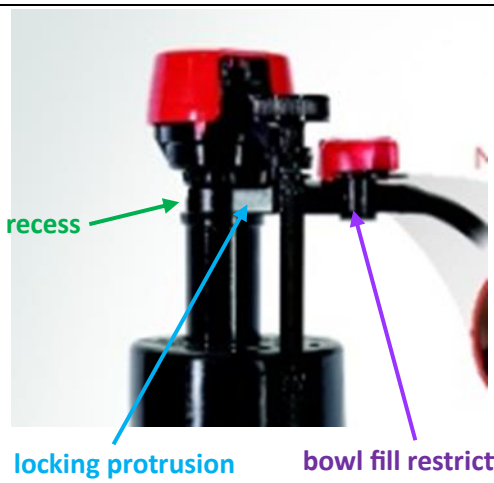
5. The system of claim 1, wherein the bowl fill restriction is configured to be snapped onto the extended portion of the body.	**Bowl fill restriction** as depicted above snaps onto the extended portion 
6. The system of claim 1, wherein the toilet fill valve further comprises:	
a float; and	
an actuating arm coupled to the float, wherein the actuating arm extends radially relative to a longitudinal axis of the toilet fill valve, wherein the actuating arm is angularly offset relative to the bowl fill valve, thereby preventing an interference with the bowl fill restriction and a translational stem that extends from the float to a free end of the actuating arm.	

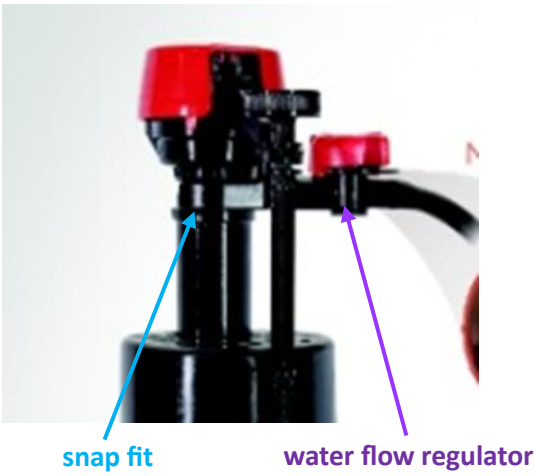
7. The system of claim 1, wherein the bowl fill restriction further comprises a nipple that is configured to insert into the tube.	
9. A method, comprising:	

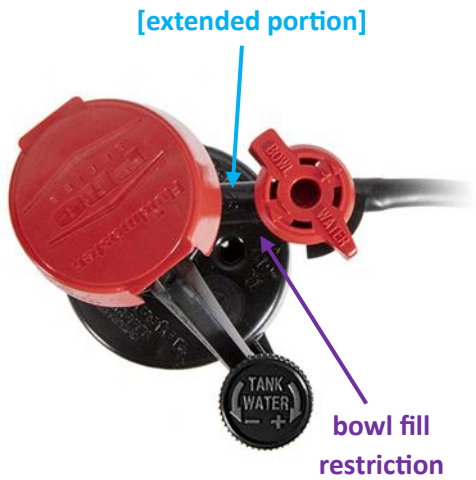
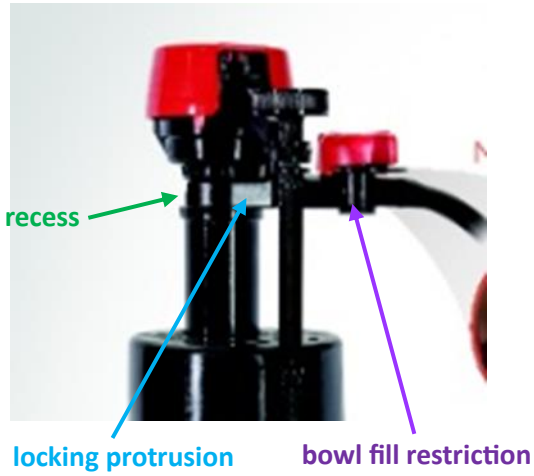
receiving, via a water inlet of a toilet fill valve, water from a water supply; providing, via a tank water outlet of the toilet fill valve, a first portion of the water to a toilet tank;	

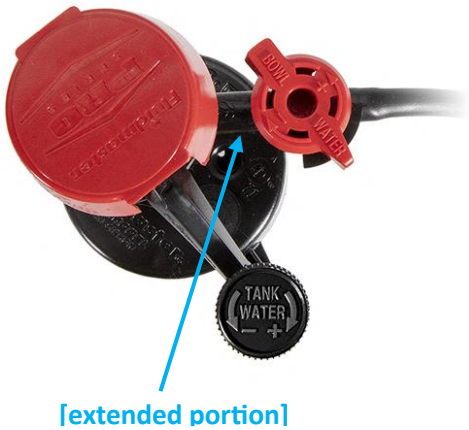
providing, via a bowl fill outlet port of the toilet fill valve, a second portion of the water to a bowl fill restriction, wherein an extended portion of the toilet fill valve forms the bowl fill outlet port, wherein the extended portion is integrally molded with the toilet fill valve, wherein the bowl fill restriction is in direct contact with the extended portion of the toilet fill valve, wherein the bowl fill restriction is constructed as a single piece, wherein the bowl fill restriction causes a flow of the second portion of the water to be constricted;	
providing, via the bowl fill restriction, the second portion of the water to a tube that is in direct contact with the bowl fill restriction; and	

providing, via the tube, the second portion of the water to a toilet tank overfill tube.	
11. The method of claim 9, further comprising terminating, using the toilet fill valve, the flow of the second portion of the water so that a water level in a toilet bowl is at a predefined level.	**Bowl fill restriction** dial allows adjustment of water level in bowl and the toilet fill valve terminates the flow of the second portion of the water when the float rises to the point that the actuator arm terminates the flow of water at a predefined level
12. The method of claim 11, wherein the water level is determined at least in part by the bowl fill restriction.	**Water flow regulator** dial allows adjustment of water level in bowl.
13. The method of claim 9, wherein the extended portion of the toilet fill valve is a portion of a body of the toilet fill valve.	The **bowl fill outlet port** depicted above is a portion of the body of the toilet valve
14. The method of claim 9, wherein the extended portion of the toilet fill valve extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
15. A method, comprising:	

attaching a bowl fill restriction directly to an extended portion of a body of a toilet fill valve, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port, wherein the bowl fill restriction is configured to constrict a flow rate of water that flows out of the bowl fill outlet port;	
inserting a protrusion of the bowl fill restriction into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the body; and	
attaching a tube directly to the bowl fill restriction, wherein the tube is configured to direct the water from the bowl fill restriction directly to a toilet tank overflow tube.	
16. The method of claim 15, further comprising preventing the bowl fill restriction from detaching from the extended portion of the body.	**Bowl fill restriction** as depicted above is affixed to the extended portion in a manner such that the water flow regulator does not detach from the extended portion

17. The method of claim 16, wherein preventing the bowl fill restriction from detaching from the extended portion further comprises clamping the bowl fill restriction to the extended portion.	**Bowl fill restriction** as depicted above clamps onto the extended portion
18. The method of claim 16, wherein preventing the bowl fill restriction from detaching from the extended portion further comprises snapping the bowl fill restriction to the extended portion.	**Bowl fill restriction** as depicted above snaps onto the extended portion 

20. The method of claim 15, wherein attaching a bowl fill restriction directly to the extended portion of the body of the toilet fill valve further comprises inserting a portion of the bowl fill restriction into the extended portion of the body.	
22. The method of claim 9, wherein the bowl fill restriction comprises a protrusion that is configured to insert into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the toilet fill valve.	
24. A system, comprising:	

a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:
a body comprising an extended portion that forms a bowl fill outlet port, wherein the extended portion is integrally molded with the body;	

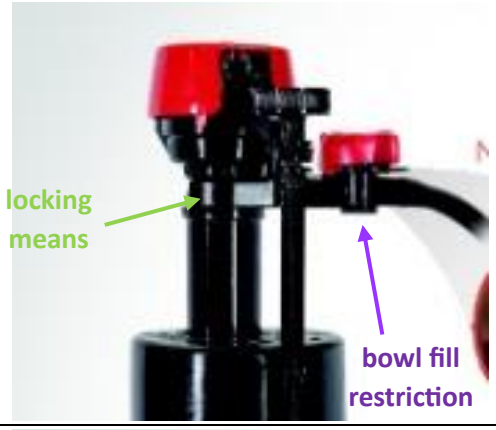
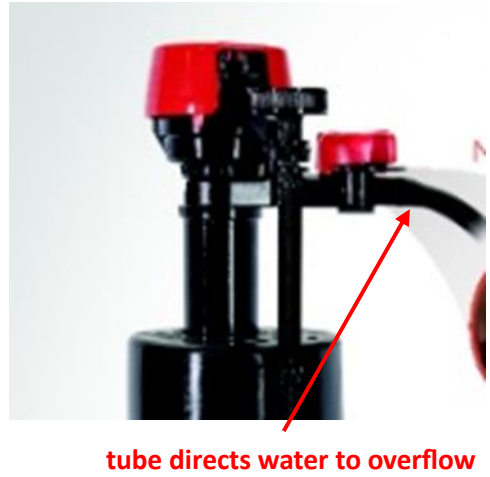
a water inlet configured to receive water from a water source; and a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	
a bowl fill restriction configured to attach directly to the extended portion of the body of the toilet fill valve, wherein the bowl fill restriction comprises means for locking the bowl fill restriction to the extended portion of the body of the toilet fill valve, wherein the bowl fill restriction is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the restriction is configured to constrict a flow rate of the second portion of the water that flows through the bowl fill restriction; and	
a tube configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction to a toilet tank overflow tube.	

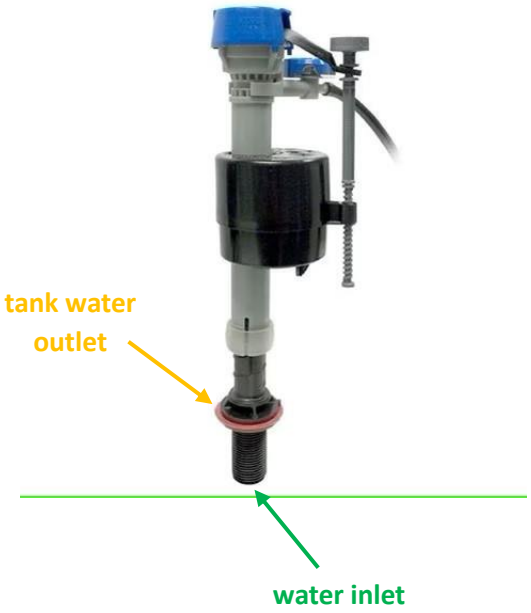
EXHIBIT B

DANCO'S PRELIMINARY INFRINGEMENT CONTENTIONS

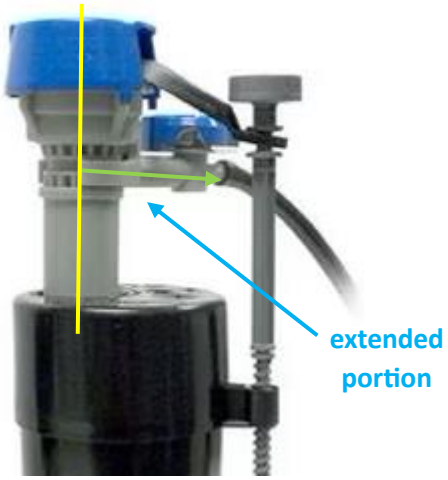
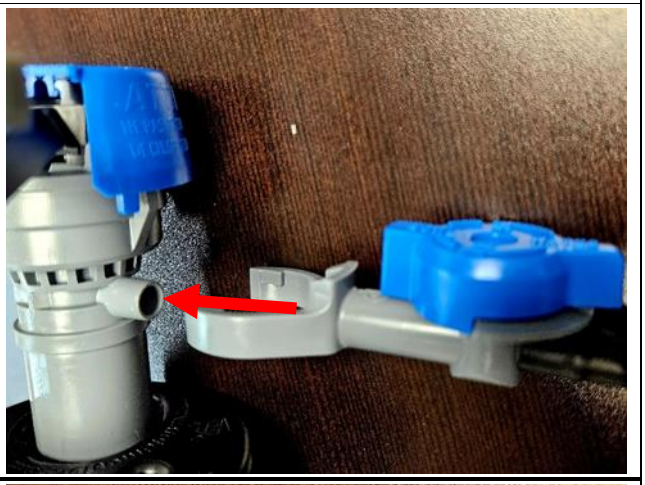
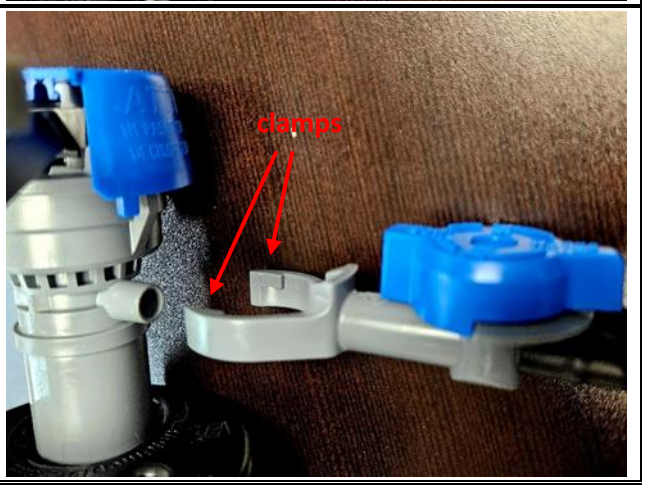
Danco, Inc. v. Fluidmaster, Inc.
Case No. Case No. 8:23-cv-01156-AB-DFM

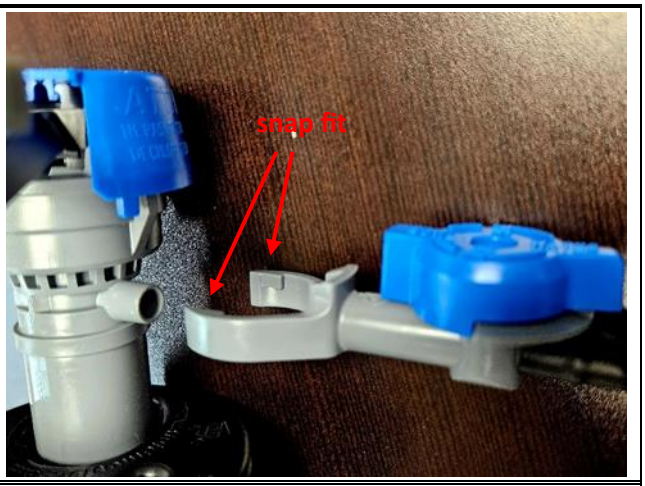
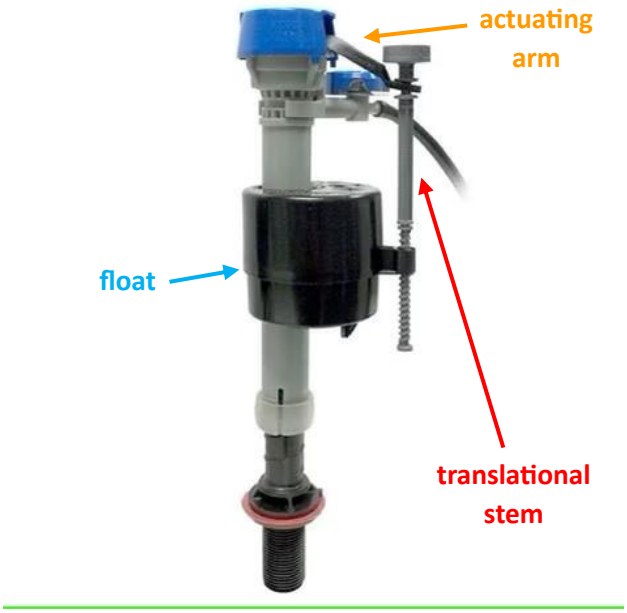
U.S. Patent No. 9,103,105	
Claim	**Fluidmaster 400H series fill valves and kits including/utilizing 400H series fill valves or their equivalent(s)**
1. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:

a body comprising an extended portion, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port;	

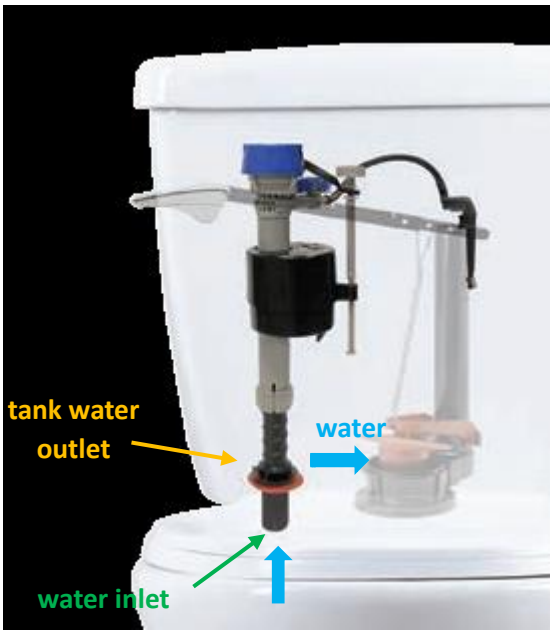
a water inlet configured to receive water from a water source; and a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	

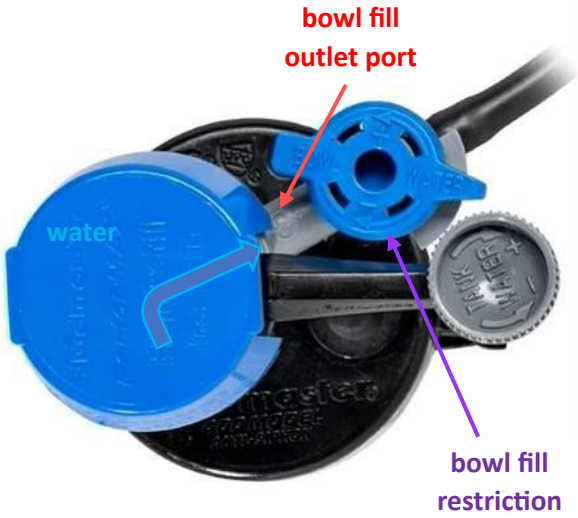
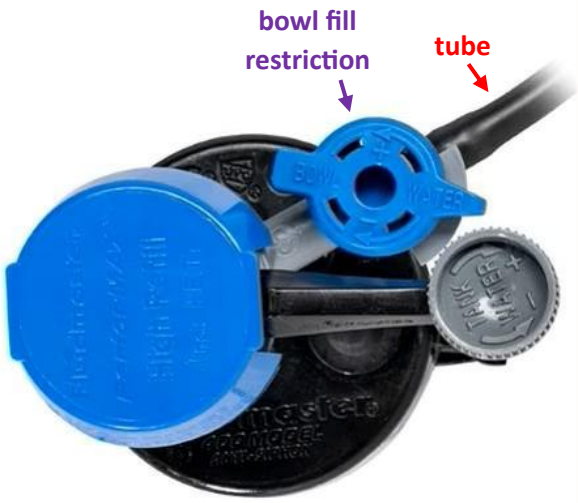
a bowl fill restriction configured to attach directly to the extended portion of the body, wherein the bowl fill restriction comprises a protrusion that is configured to insert into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the body, wherein the bowl fill restriction is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the restriction is configured to constrict a flow rate of the second portion of the water that flows through the bowl fill restriction; and	
a tube that is configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction directly to a toilet tank overflow tube.	

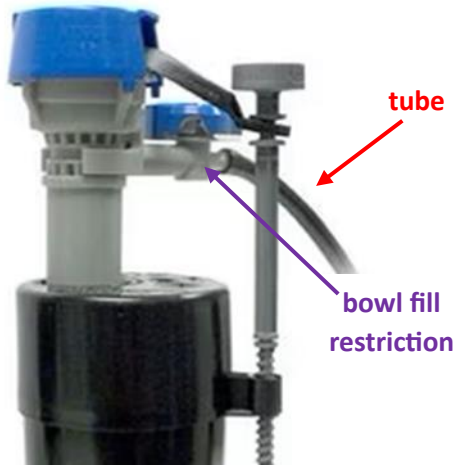
2. The system of claim 1, wherein the extended portion of the body extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
3. The system of claim 1, wherein a portion of the bowl fill restriction is configured to insert into the extended portion of the body.	
4. The system of claim 1, wherein the bowl fill restriction is configured to be clamped to the extended portion of the body.	

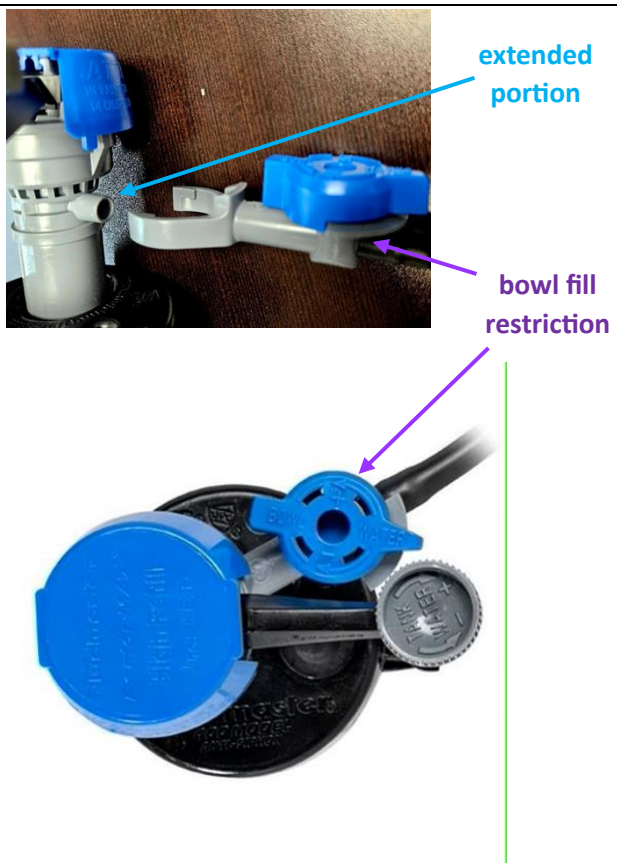
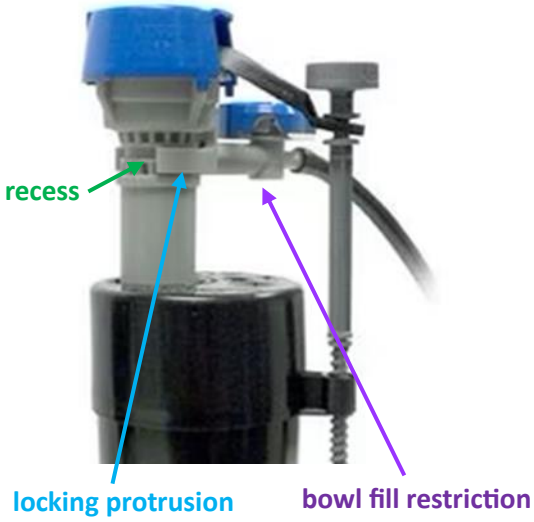
5. The system of claim 1, wherein the bowl fill restriction is configured to be snapped onto the extended portion of the body.	
6. The system of claim 1, wherein the toilet fill valve further comprises:	
a float; and	
an actuating arm coupled to the float, wherein the actuating arm extends radially relative to a longitudinal axis of the toilet fill valve, wherein the actuating arm is angularly offset relative to the bowl fill valve, thereby preventing an interference with the bowl fill restriction and a translational stem that extends from the float to a free end of the actuating arm.	

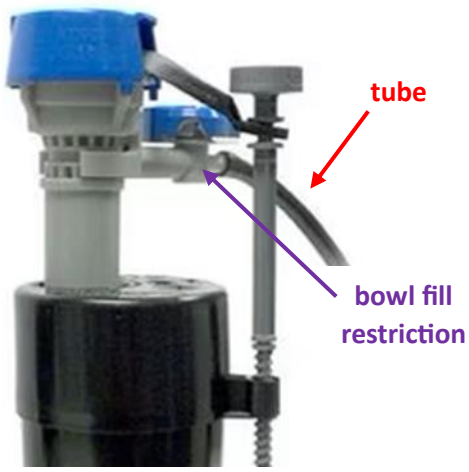
7. The system of claim 1, wherein the bowl fill restriction further comprises a nipple that is configured to insert into the tube.	
9. A method, comprising:	

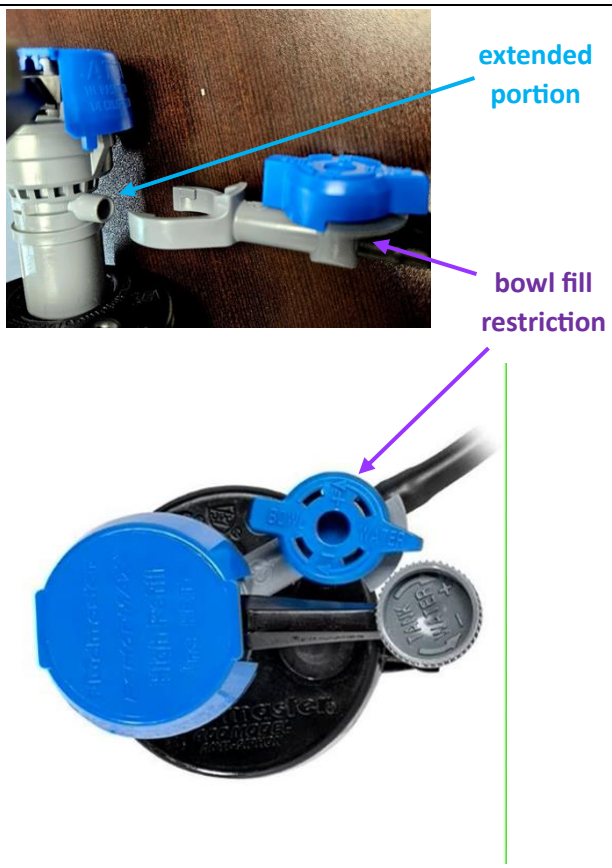
receiving, via a water inlet of a toilet fill valve, water from a water supply; providing, via a tank water outlet of the toilet fill valve, a first portion of the water to a toilet tank;	

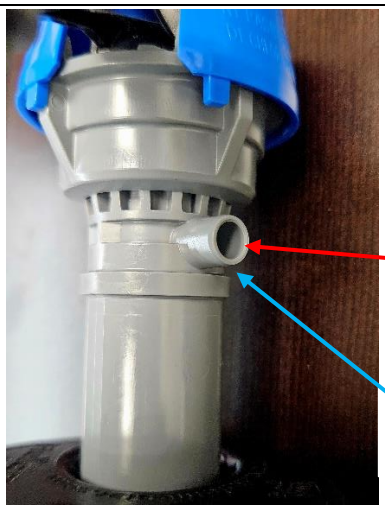
providing, via a bowl fill outlet port of the toilet fill valve, a second portion of the water to a bowl fill restriction, wherein an extended portion of the toilet fill valve forms the bowl fill outlet port, wherein the extended portion is integrally molded with the toilet fill valve, wherein the bowl fill restriction is in direct contact with the extended portion of the toilet fill valve, wherein the bowl fill restriction is constructed as a single piece, wherein the bowl fill restriction causes a flow of the second portion of the water to be constricted;	
providing, via the bowl fill restriction, the second portion of the water to a tube that is in direct contact with the bowl fill restriction; and	

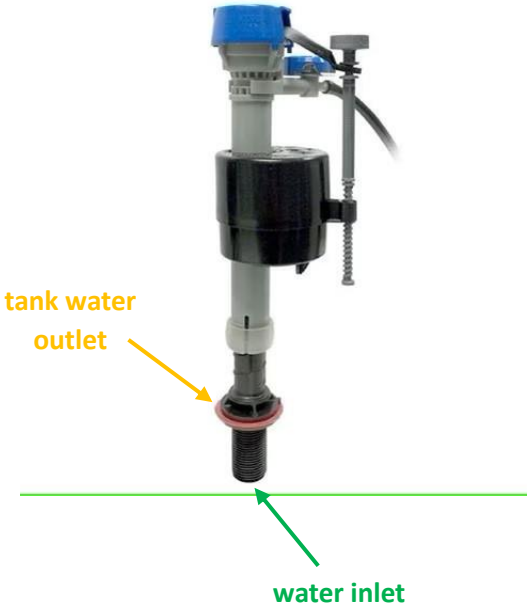
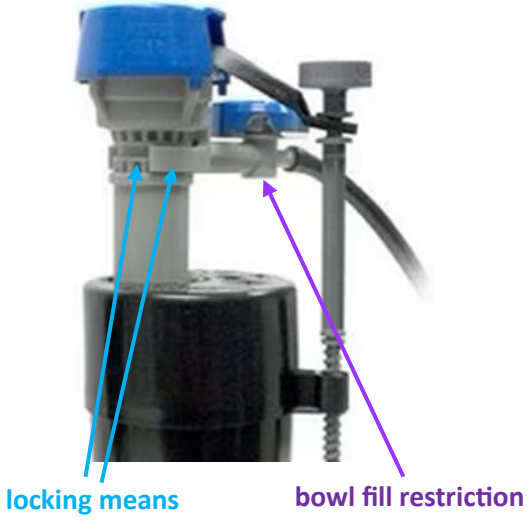
providing, via the tube, the second portion of the water to a toilet tank overfill tube.	 The **tube** depicted above carries water to the toilet tank overfill tube/pipe
11. The method of claim 9, further comprising terminating, using the toilet fill valve, the flow of the second portion of the water so that a water level in a toilet bowl is at a predefined level.	**Bowl fill restriction** dial allows adjustment of water level in bowl and the toilet fill valve terminates the flow of the second portion of the water when the float rises to the point that the actuator arm terminates the flow of water at a predefined level
12. The method of claim 11, wherein the water level is determined at least in part by the bowl fill restriction.	**Bowl fill restriction** dial allows adjustment of water level in bowl.
13. The method of claim 9, wherein the extended portion of the toilet fill valve is a portion of a body of the toilet fill valve.	The **bowl fill outlet port** depicted above is a portion of the body of the toilet valve
14. The method of claim 9, wherein the extended portion of the toilet fill valve extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)

15. A method, comprising:	
attaching a bowl fill restriction directly to an extended portion of a body of a toilet fill valve, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port, wherein the bowl fill restriction is configured to constrict a flow rate of water that flows out of the bowl fill outlet port;	
inserting a protrusion of the bowl fill restriction into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the body; and	

attaching a tube directly to the bowl fill restriction, wherein the tube is configured to direct the water from the bowl fill restriction directly to a toilet tank overflow tube.	
16. The method of claim 15, further comprising preventing the bowl fill restriction from detaching from the extended portion of the body.	**Bowl fill restriction** as depicted above is affixed to the extended portion in a manner such that the water flow regulator does not detach from the extended portion
17. The method of claim 16, wherein preventing the bowl fill restriction from detaching from the extended portion further comprises clamping the bowl fill restriction to the extended portion.	**Bowl fill restriction** as depicted above clamps onto the extended portion
18. The method of claim 16, wherein preventing the bowl fill restriction from detaching from the extended portion further comprises snapping the bowl fill restriction to the extended portion.	**Bowl fill restriction** as depicted above snaps onto the extended portion

20. The method of claim 15, wherein attaching a bowl fill restriction directly to the extended portion of the body of the toilet fill valve further comprises inserting a portion of the bowl fill restriction into the extended portion of the body.	
22. The method of claim 9, wherein the bowl fill restriction comprises a protrusion that is configured to insert into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the toilet fill valve.	
24. A system, comprising:	

a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:
a body comprising an extended portion that forms a bowl fill outlet port, wherein the extended portion is integrally molded with the body;	

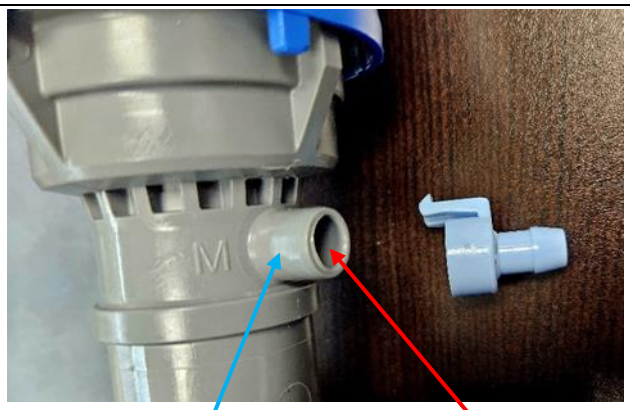
a water inlet configured to receive water from a water source; and a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	
a bowl fill restriction configured to attach directly to the extended portion of the body of the toilet fill valve, wherein the bowl fill restriction comprises means for locking the bowl fill restriction to the extended portion of the body of the toilet fill valve, wherein the bowl fill restriction is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the restriction is configured to constrict a flow rate of the second portion of the water that flows through the bowl fill restriction; and	

a tube configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction to a toilet tank overflow tube.	

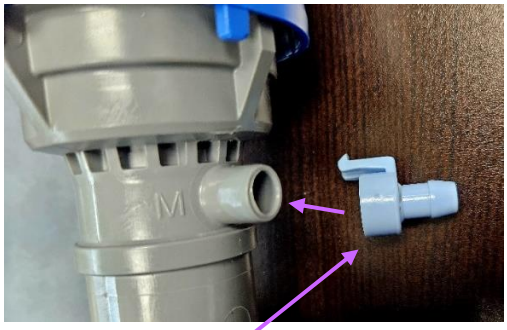
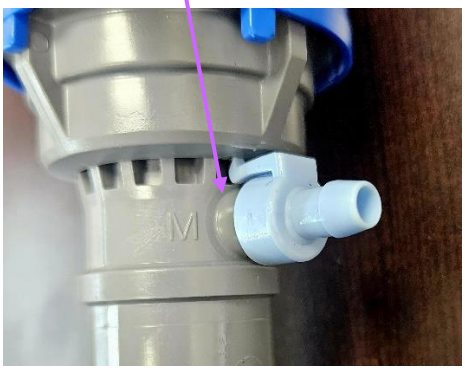
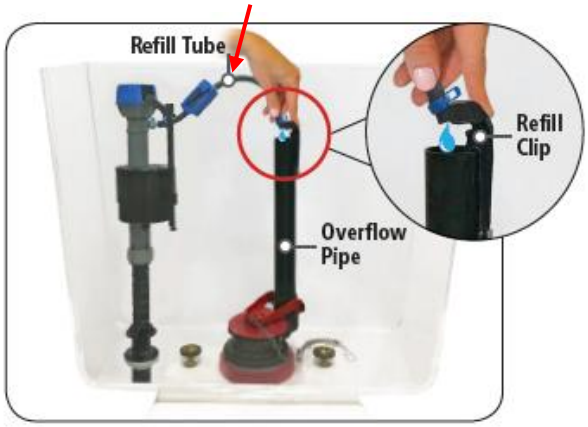
EXHIBIT C

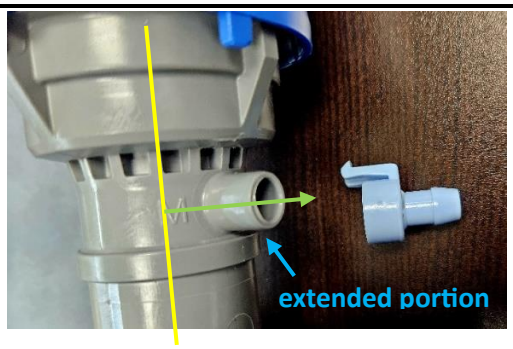
DANCO'S PRELIMINARY INFRINGEMENT CONTENTIONS

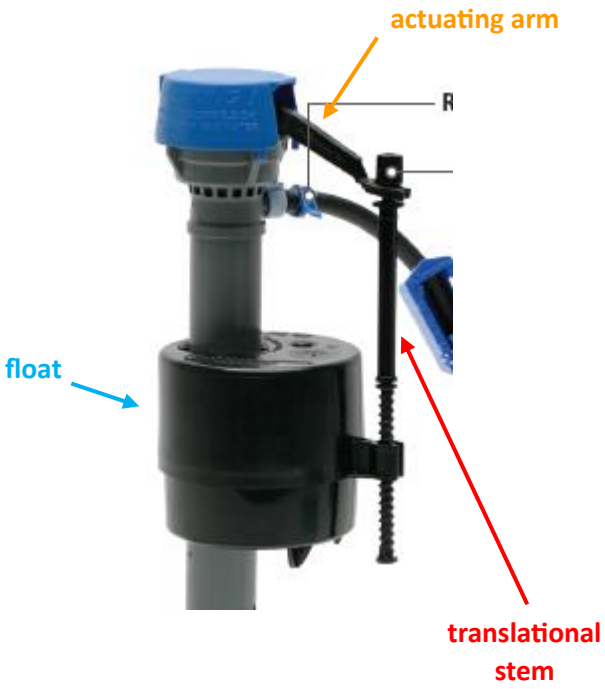
Danco, Inc. v. Fluidmaster, Inc.
Case No. Case No. 8:23-cv-01156-AB-DFM

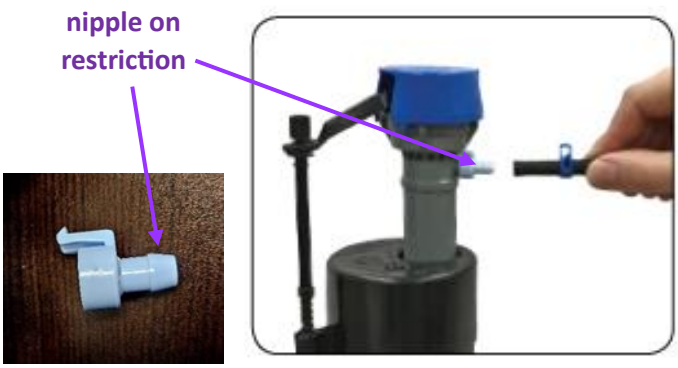
U.S. Patent No. 9,103,105	
Claim	**Fluidmaster 400A series fill valves and kits including/utilizing 400A series fill valves or their equivalent(s)**
1. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:
a body comprising an extended portion, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port;	

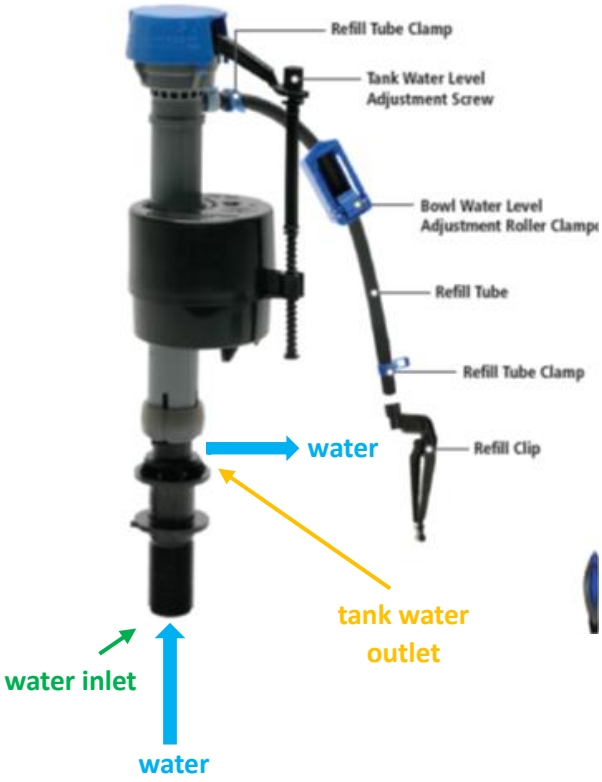
a water inlet configured to receive water from a water source; and a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	

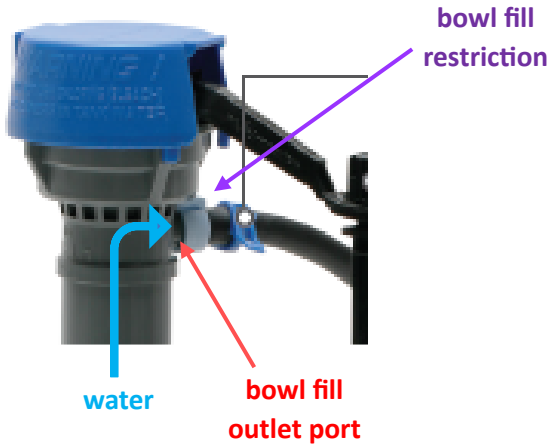
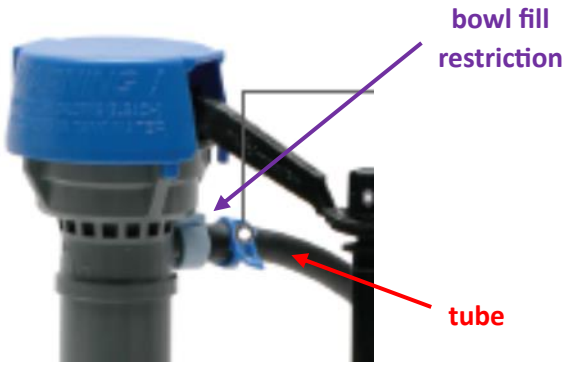
a bowl fill restriction configured to attach directly to the extended portion of the body, wherein the bowl fill restriction comprises a protrusion that is configured to insert into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the body, wherein the bowl fill restriction is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the restriction is configured to constrict a flow rate of the second portion of the water that flows through the bowl fill restriction; and	 bowl fill restriction inserts into extended portion 
a tube that is configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction directly to a toilet tank overflow tube.	tube directs water to overflow 

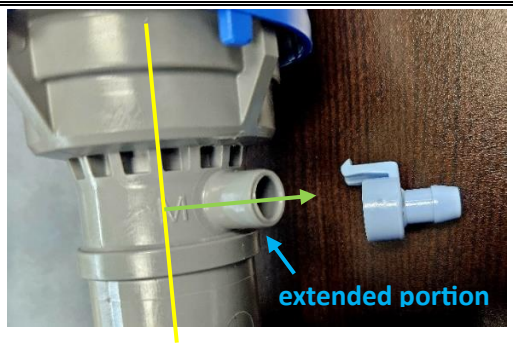
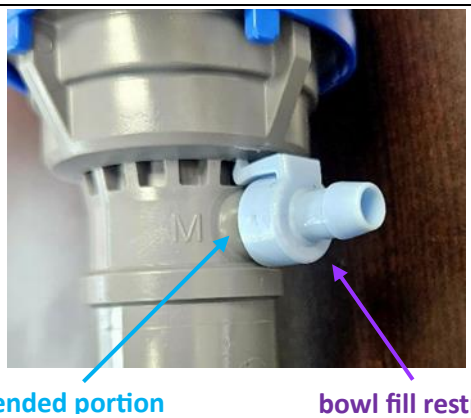
2. The system of claim 1, wherein the extended portion of the body extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
3. The system of claim 1, wherein a portion of the bowl fill restriction is configured to insert into the extended portion of the body.	
4. The system of claim 1, wherein the bowl fill restriction is configured to be clamped to the extended portion of the body.	

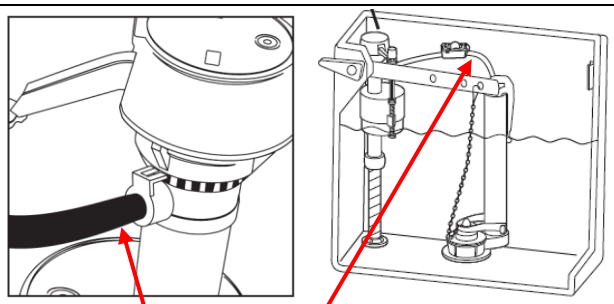
5. The system of claim 1, wherein the bowl fill restriction is configured to be snapped onto the extended portion of the body.	
6. The system of claim 1, wherein the toilet fill valve further comprises:	
a float; and	
an actuating arm coupled to the float, wherein the actuating arm extends radially relative to a longitudinal axis of the toilet fill valve, wherein the actuating arm is angularly offset relative to the bowl fill valve, thereby preventing an interference with the bowl fill restriction and a translational stem that extends from the float to a free end of the actuating arm.	

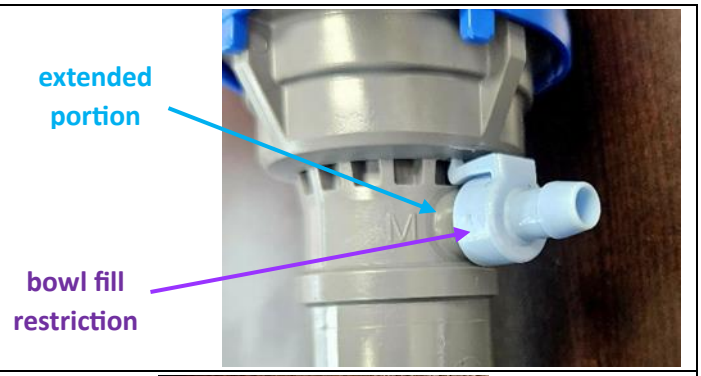
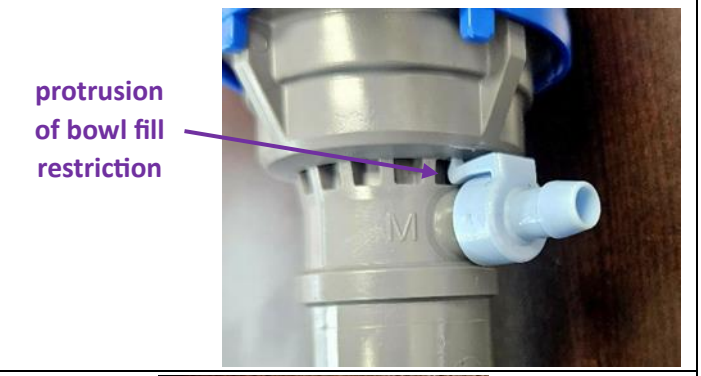
7. The system of claim 1, wherein the bowl fill restriction further comprises a nipple that is configured to insert into the tube.	
9. A method, comprising:	

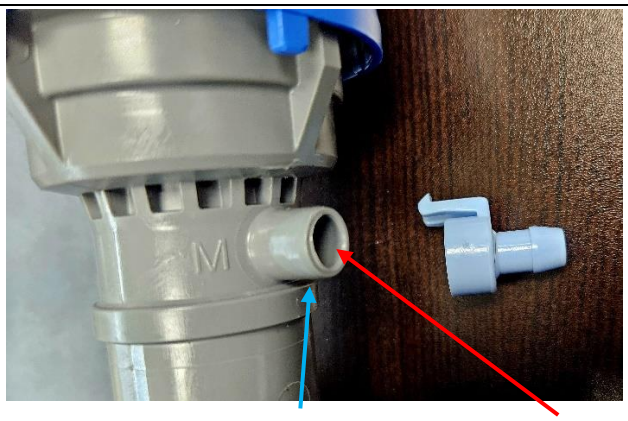
receiving, via a water inlet of a toilet fill valve, water from a water supply; providing, via a tank water outlet of the toilet fill valve, a first portion of the water to a toilet tank;	

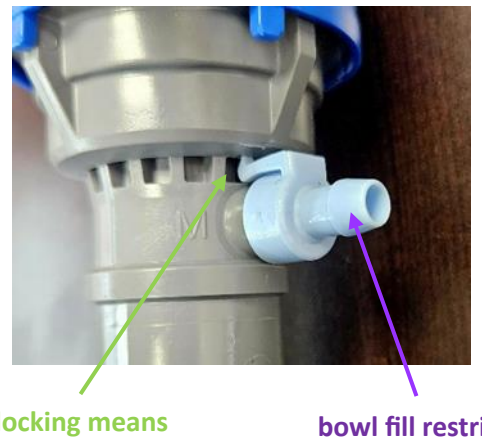
providing, via a bowl fill outlet port of the toilet fill valve, a second portion of the water to a bowl fill restriction, wherein an extended portion of the toilet fill valve forms the bowl fill outlet port, wherein the extended portion is integrally molded with the toilet fill valve, wherein the bowl fill restriction is in direct contact with the extended portion of the toilet fill valve, wherein the bowl fill restriction is constructed as a single piece, wherein the bowl fill restriction causes a flow of the second portion of the water to be constricted;	
providing, via the bowl fill restriction, the second portion of the water to a tube that is in direct contact with the bowl fill restriction; and	
providing, via the tube, the second portion of the water to a toilet tank overfill tube.	The **tube** depicted above carries water to the toilet tank overfill tube/pipe
11. The method of claim 9, further comprising terminating, using the toilet fill valve, the flow of the second portion of the water so that a water level in a toilet bowl is at a predefined level.	The toilet fill valve terminates the flow of the second portion of the water when the float rises to the point that the actuator arm terminates the flow of water at a predefined level

12. The method of claim 11, wherein the water level is determined at least in part by the bowl fill restriction.	**Bowl fill restriction** determines water level
13. The method of claim 9, wherein the extended portion of the toilet fill valve is a portion of a body of the toilet fill valve.	The **bowl fill outlet port** depicted above is a portion of the body of the toilet valve
14. The method of claim 9, wherein the extended portion of the toilet fill valve extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
15. A method, comprising:	
attaching a bowl fill restriction directly to an extended portion of a body of a toilet fill valve, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port, wherein the bowl fill restriction is configured to constrict a flow rate of water that flows out of the bowl fill outlet port;	

inserting a protrusion of the bowl fill restriction into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the body; and	
attaching a tube directly to the bowl fill restriction, wherein the tube is configured to direct the water from the bowl fill restriction directly to a toilet tank overflow tube.	
16. The method of claim 15, further comprising preventing the bowl fill restriction from detaching from the extended portion of the body.	**Bowl fill restriction** as depicted above is affixed to the extended portion in a manner such that the water flow regulator does not detach from the extended portion
17. The method of claim 16, wherein preventing the bowl fill restriction from detaching from the extended portion further comprises clamping the bowl fill restriction to the extended portion.	**Bowl fill restriction** as depicted above clamps onto the extended portion
18. The method of claim 16, wherein preventing the bowl fill restriction from detaching from the extended portion further comprises snapping the bowl fill restriction to the extended portion.	**Bowl fill restriction** as depicted above snaps onto the extended portion

20. The method of claim 15, wherein attaching a bowl fill restriction directly to the extended portion of the body of the toilet fill valve further comprises inserting a portion of the bowl fill restriction into the extended portion of the body.	
21. The system of claim 1, wherein the bowl fill restriction is constructed of a single piece.	
22. The method of claim 9, wherein the bowl fill restriction comprises a protrusion that is configured to insert into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the toilet fill valve.	
23. The method of claim 15, wherein the bowl fill restriction is constructed of a single piece.	
24. A system, comprising:	

a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:
a body comprising an extended portion that forms a bowl fill outlet port, wherein the extended portion is integrally molded with the body;	

a water inlet configured to receive water from a water source; and a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	
a bowl fill restriction configured to attach directly to the extended portion of the body of the toilet fill valve, wherein the bowl fill restriction comprises means for locking the bowl fill restriction to the extended portion of the body of the toilet fill valve, wherein the bowl fill restriction is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the restriction is configured to constrict a flow rate of the second portion of the water that flows through the bowl fill restriction; and	

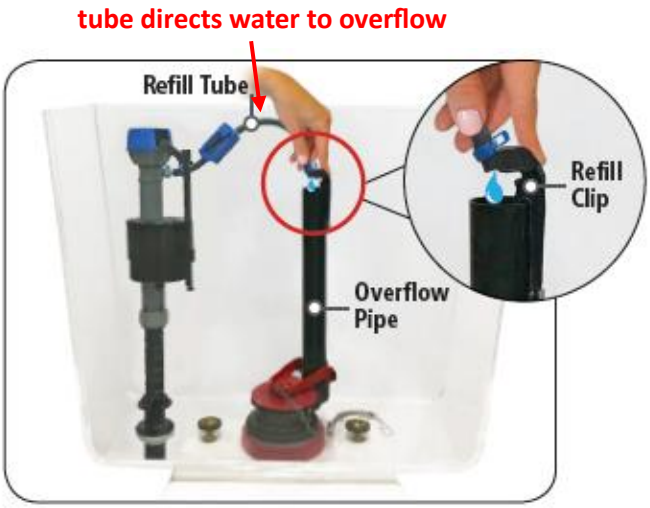
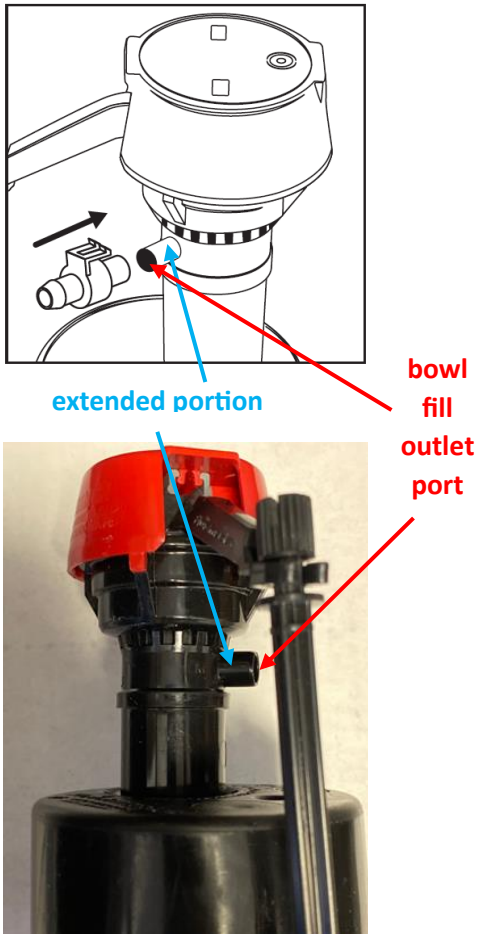
a tube configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction to a toilet tank overflow tube.	

EXHIBIT D

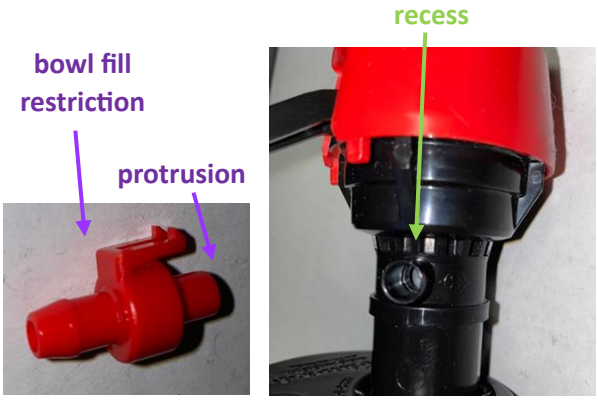
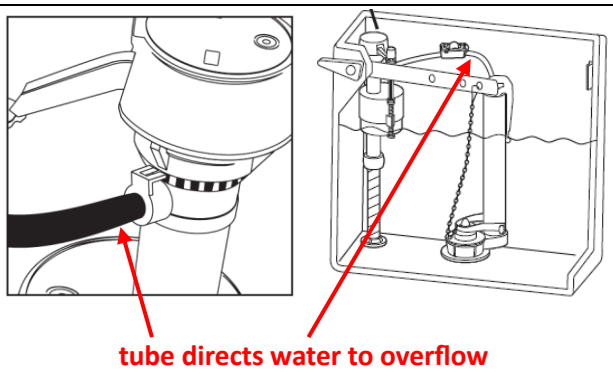
DANCO'S PRELIMINARY INFRINGEMENT CONTENTIONS

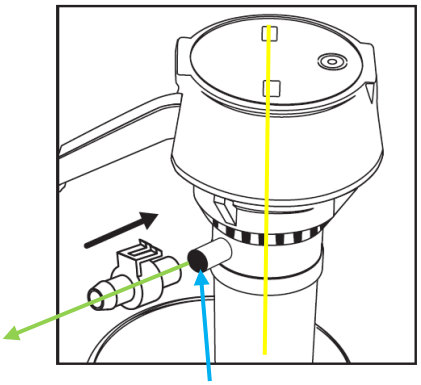
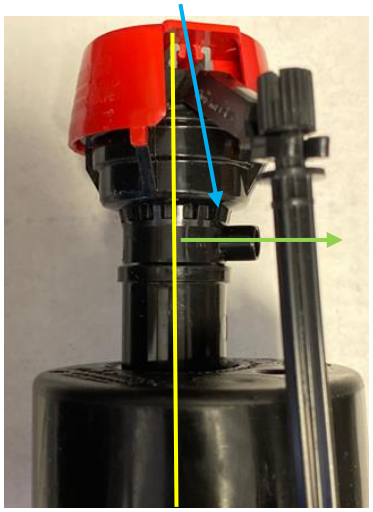
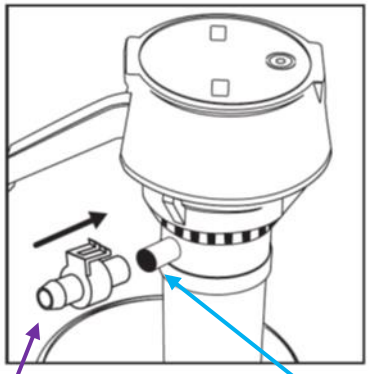
Danco, Inc. v. Fluidmaster, Inc.
Case No. Case No. 8:23-cv-01156-AB-DFM

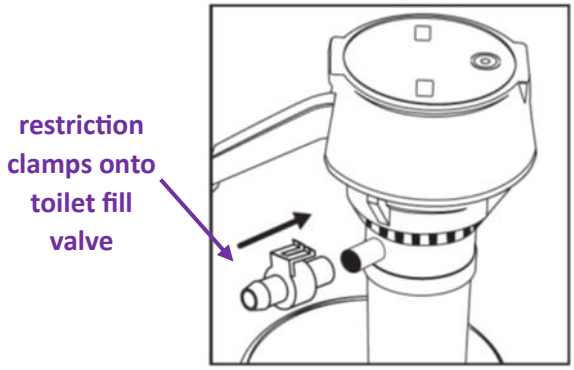
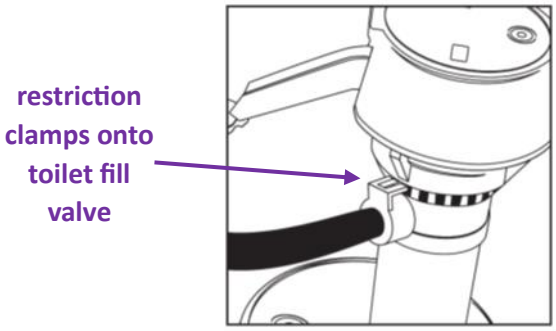
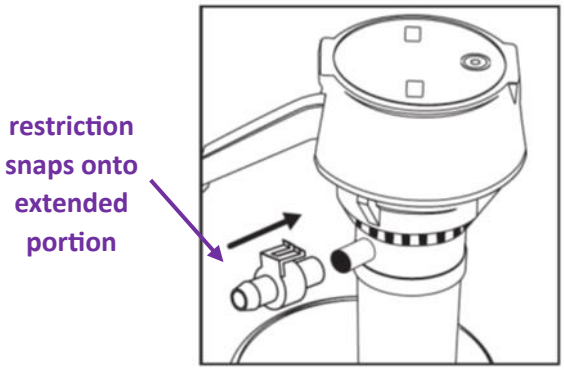
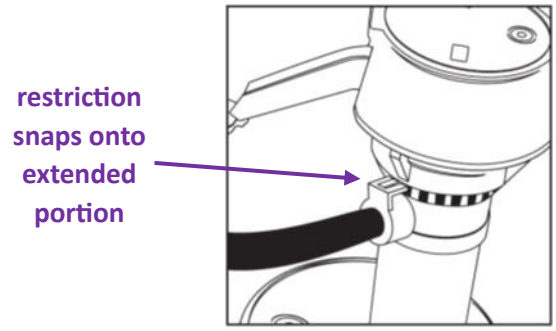
U.S. Patent No. 9,103,105	
Claim	**Fluidmaster PRO45U/PRO45HR series fill valves and kits including/utilizing PRO45U/PRO45HR series fill valves or their equivalent(s)**
1. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:

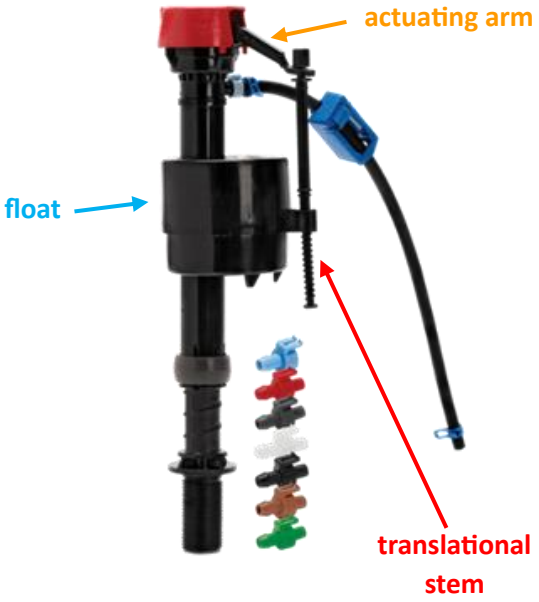
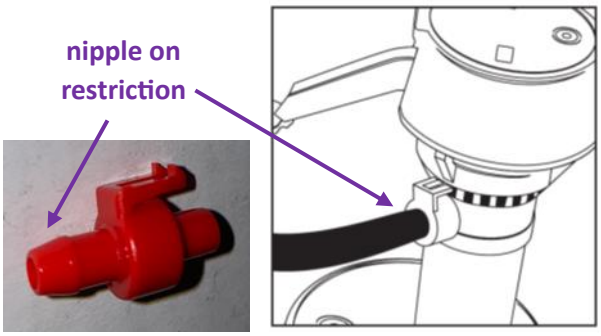
a body comprising an extended portion, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port;	

a water inlet configured to receive water from a water source; and	 water inlet
a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	 tank water outlet

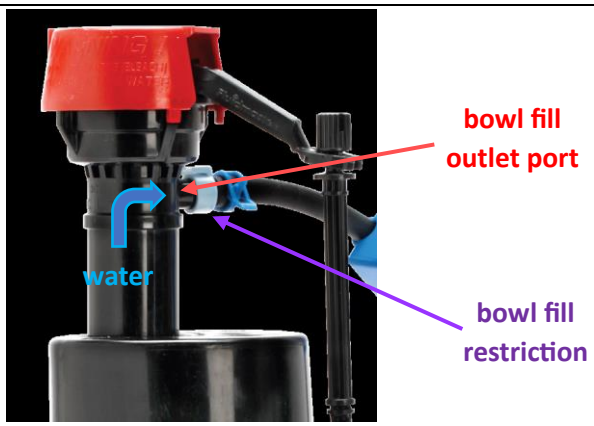
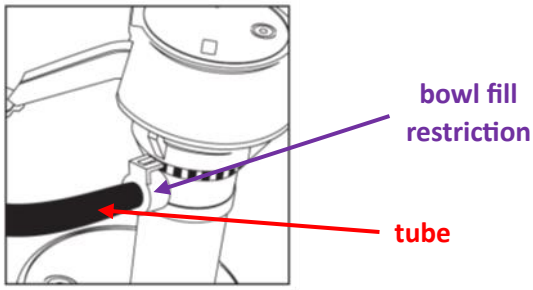
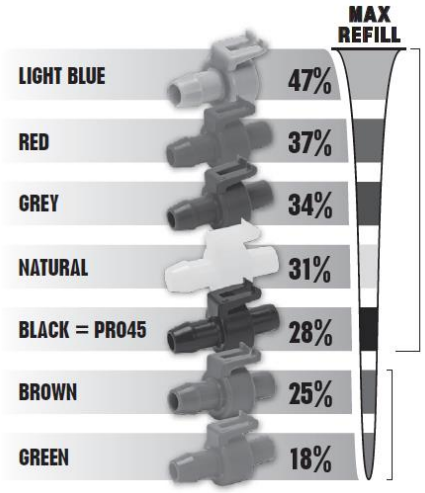
a bowl fill restriction configured to attach directly to the extended portion of the body, wherein the bowl fill restriction comprises a protrusion that is configured to insert into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the body, wherein the bowl fill restriction is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the restriction is configured to constrict a flow rate of the second portion of the water that flows through the bowl fill restriction; and	
a tube that is configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction directly to a toilet tank overflow tube.	

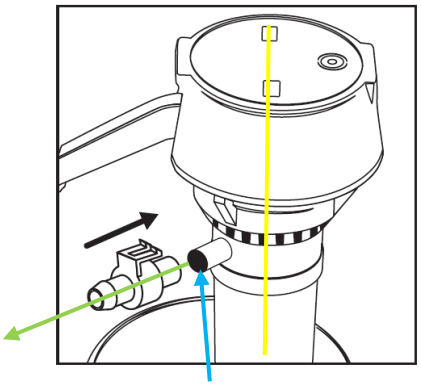
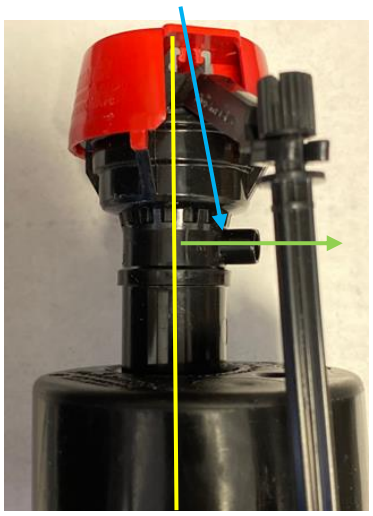
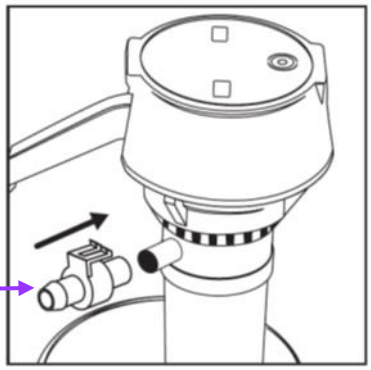
2. The system of claim 1, wherein the extended portion of the body extends radially from a longitudinal axis of the toilet fill valve.	 extended portion  **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
3. The system of claim 1, wherein a portion of the bowl fill restriction is configured to insert into the extended portion of the body.	 bowl fill restriction extended portion

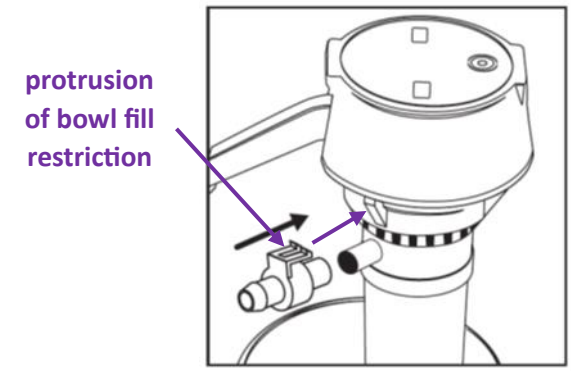
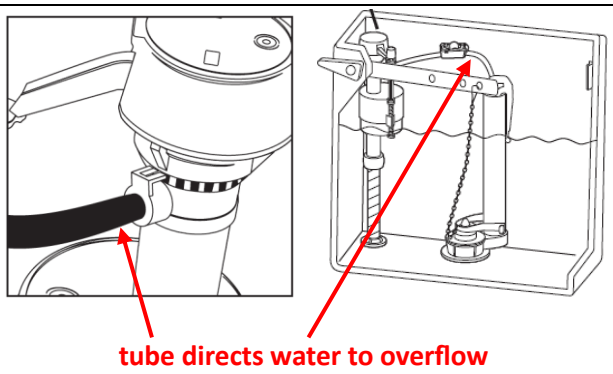
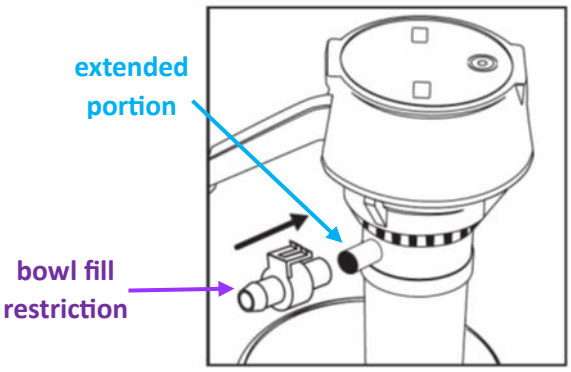
4. The system of claim 1, wherein the bowl fill restriction is configured to be clamped to the extended portion of the body.	 
5. The system of claim 1, wherein the bowl fill restriction is configured to be snapped onto the extended portion of the body.	 

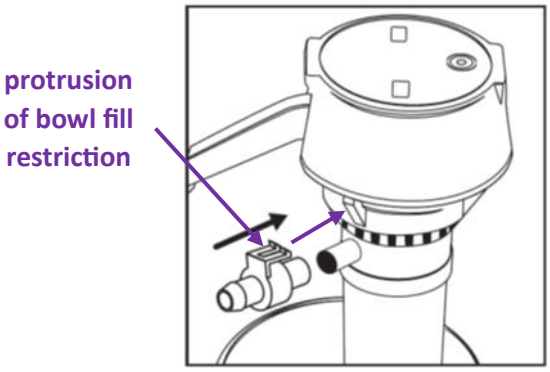
6. The system of claim 1, wherein the toilet fill valve further comprises:	
a float; and	
an actuating arm coupled to the float, wherein the actuating arm extends radially relative to a longitudinal axis of the toilet fill valve, wherein the actuating arm is angularly offset relative to the bowl fill valve, thereby preventing an interference with the bowl fill restriction and a translational stem that extends from the float to a free end of the actuating arm.	
7. The system of claim 1, wherein the bowl fill restriction further comprises a nipple that is configured to insert into the tube.	
9. A method, comprising:	

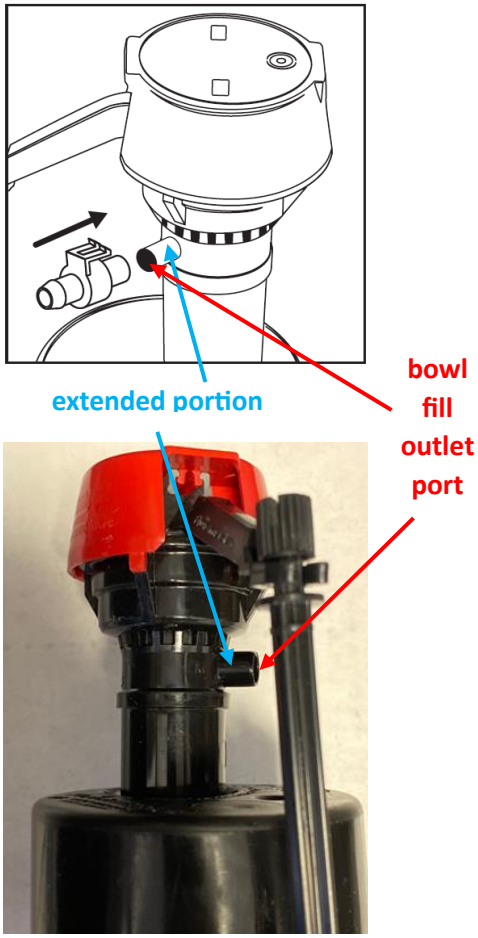
receiving, via a water inlet of a toilet fill valve, water from a water supply;	
providing, via a tank water outlet of the toilet fill valve, a first portion of the water to a toilet tank;	

providing, via a bowl fill outlet port of the toilet fill valve, a second portion of the water to a bowl fill restriction, wherein an extended portion of the toilet fill valve forms the bowl fill outlet port, wherein the extended portion is integrally molded with the toilet fill valve, wherein the bowl fill restriction is in direct contact with the extended portion of the toilet fill valve, wherein the bowl fill restriction is constructed as a single piece, wherein the bowl fill restriction causes a flow of the second portion of the water to be constricted;	
providing, via the bowl fill restriction, the second portion of the water to a tube that is in direct contact with the bowl fill restriction; and	
providing, via the tube, the second portion of the water to a toilet tank overfill tube.	The **tube** depicted above carries water to the toilet tank overfill tube/pipe
11. The method of claim 9, further comprising terminating, using the toilet fill valve, the flow of the second portion of the water so that a water level in a toilet bowl is at a predefined level.	The toilet fill valve terminates the flow of the second portion of the water when the float rises to the point that the actuator arm terminates the flow of water at a predefined level
12. The method of claim 11, wherein the water level is determined at least in part by the bowl fill restriction.	 **Bowl fill restriction** inserts determine water level
13. The method of claim 9, wherein the extended portion of the toilet fill valve is a portion of a body of the toilet fill valve.	The **bowl fill outlet port** depicted above is a portion of the body of the toilet valve

14. The method of claim 9, wherein the extended portion of the toilet fill valve extends radially from a longitudinal axis of the toilet fill valve.	 extended portion  **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
15. A method, comprising:	
attaching a bowl fill restriction directly to an extended portion of a body of a toilet fill valve, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port, wherein the bowl fill restriction is configured to constrict a flow rate of water that flows out of the bowl fill outlet port;	bowl fill restriction 

inserting a protrusion of the bowl fill restriction into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the body; and	
attaching a tube directly to the bowl fill restriction, wherein the tube is configured to direct the water from the bowl fill restriction directly to a toilet tank overflow tube.	
16. The method of claim 15, further comprising preventing the bowl fill restriction from detaching from the extended portion of the body.	**Bowl fill restriction** as depicted above is affixed to the extended portion in a manner such that the water flow regulator does not detach from the extended portion
17. The method of claim 16, wherein preventing the bowl fill restriction from detaching from the extended portion further comprises clamping the bowl fill restriction to the extended portion.	**Bowl fill restriction** as depicted above clamps onto the extended portion
18. The method of claim 16, wherein preventing the bowl fill restriction from detaching from the extended portion further comprises snapping the bowl fill restriction to the extended portion.	**Bowl fill restriction** as depicted above snaps onto the extended portion
20. The method of claim 15, wherein attaching a bowl fill restriction directly to the extended portion of the body of the toilet fill valve further comprises inserting a portion of the bowl fill restriction into the extended portion of the body.	

21. The system of claim 1, wherein the bowl fill restriction is constructed of a single piece.	
22. The method of claim 9, wherein the bowl fill restriction comprises a protrusion that is configured to insert into a recess in the toilet fill valve to lock the bowl fill restriction to the extended portion of the toilet fill valve.	
23. The method of claim 15, wherein the bowl fill restriction is constructed of a single piece.	
24. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:

a body comprising an extended portion that forms a bowl fill outlet port, wherein the extended portion is integrally molded with the body;	

a water inlet configured to receive water from a water source; and	
a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	

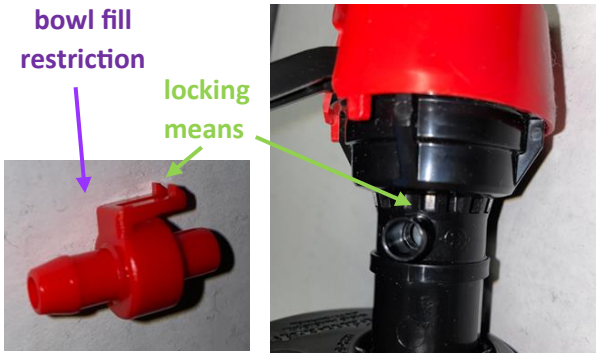
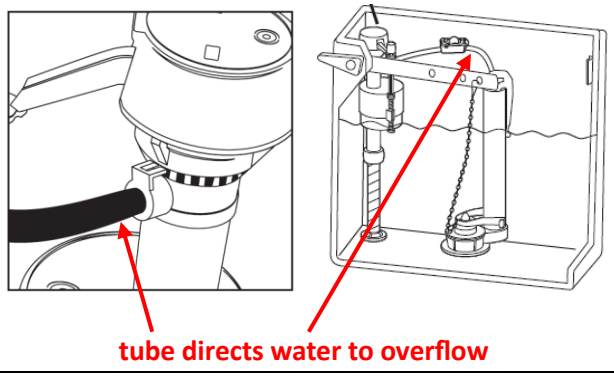
a bowl fill restriction configured to attach directly to the extended portion of the body of the toilet fill valve, wherein the bowl fill restriction comprises means for locking the bowl fill restriction to the extended portion of the body of the toilet fill valve, wherein the bowl fill restriction is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the restriction is configured to constrict a flow rate of the second portion of the water that flows through the bowl fill restriction; and	
a tube configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction to a toilet tank overflow tube.	

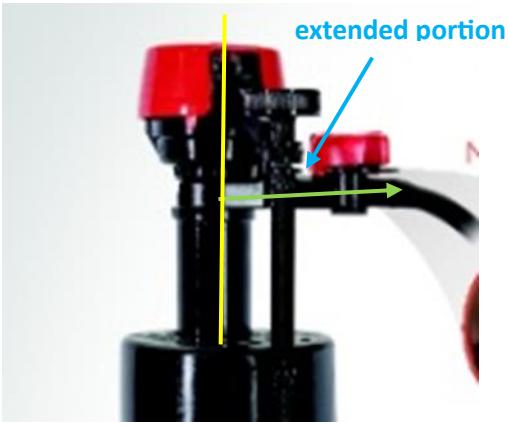
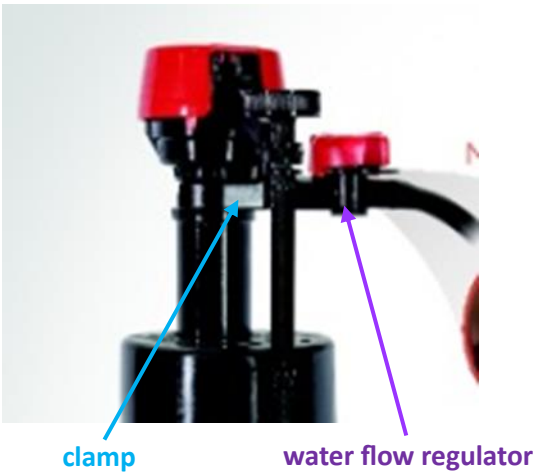
EXHIBIT E

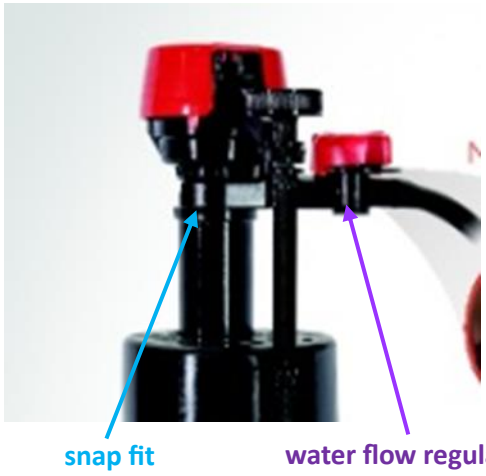
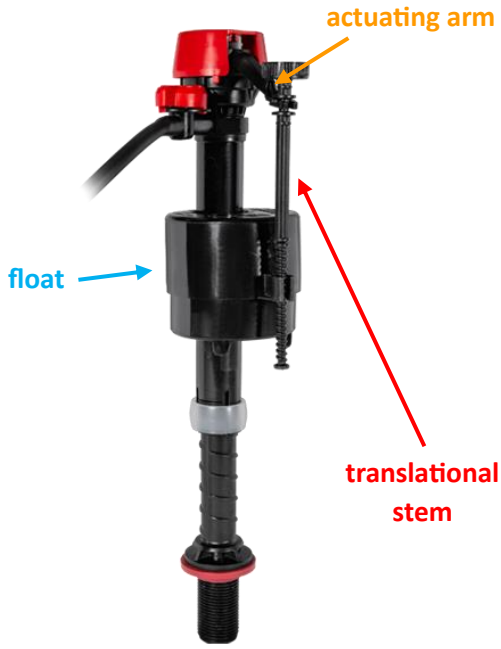
DANCO'S PRELIMINARY INFRINGEMENT CONTENTIONS

Danco, Inc. v. Fluidmaster, Inc.
Case No. Case No. 8:23-cv-01156-AB-DFM

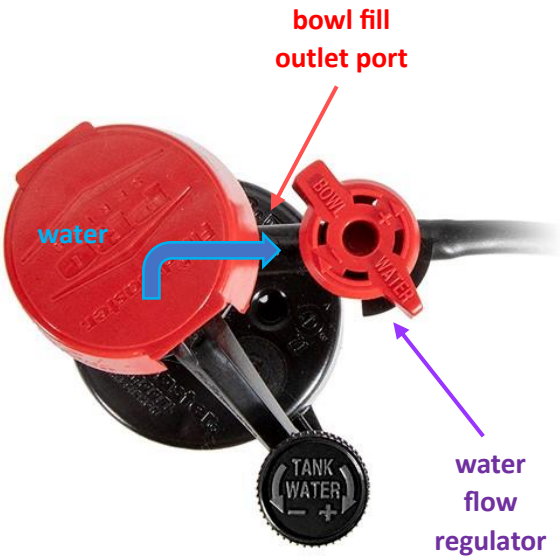
U.S. Patent No. 9,139,993	
Claim	**Fluidmaster PRO45H series fill valves and kits including/utilizing PRO45H fill valves or their equivalent(s)**
1. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:
a body comprising an extended portion, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port;	

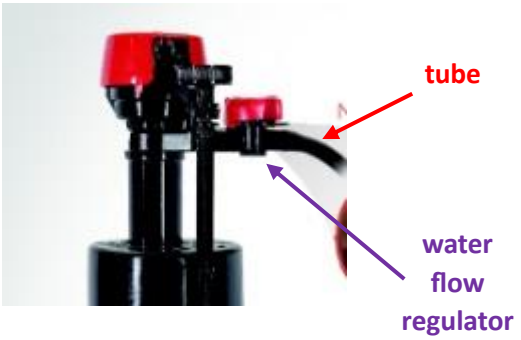
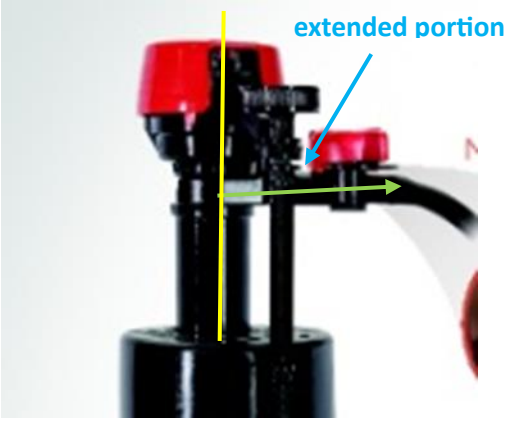
a water inlet configured to receive water from a water source; and a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	
a water flow regulator configured to attach directly to the extended portion of the body, wherein a portion of the water flow regulator is configured to insert into, and come into contact with, the extended portion of the body, wherein the water flow regulator is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the water flow regulator is configured to constrict a flow rate of the second portion of the water that flows through the water flow regulator; and	
a tube that is configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction directly to a toilet tank overflow tube.	

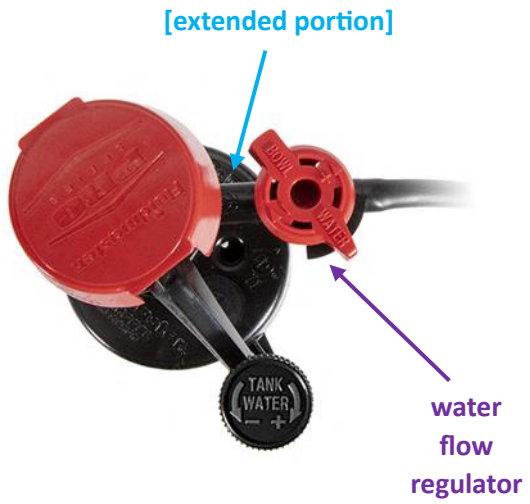
2. The system of claim 1, wherein the extended portion of the body extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
3. The system of claim 1, wherein the water flow regulator is configured to be clamped to the toilet fill valve.	**Water flow regulator** as depicted above clamps onto the extended portion 

4. The system of claim 1, wherein the water flow regulator is configured to be snapped onto the toilet fill valve	**Water flow regulator** as depicted above snaps onto the extended portion 
5. The system of claim 1, wherein the toilet fill valve further comprises:	
a float; and	
an actuating arm coupled to the float, wherein the actuating arm extends radially relative to a longitudinal axis of the toilet fill valve, wherein the actuating arm is angularly offset relative to the bowl fill valve, thereby preventing an interference with the water flow regulator and a translational stem that extends from the float to a free end of the actuating arm.	

6. The system of claim 1, wherein the water flow regulator further comprises a nipple that is configured to insert into the tube.	
8. A method, comprising:	

receiving, via a water inlet of a toilet fill valve, water from a water supply; providing, via a tank water outlet of the toilet fill valve, a first portion of the water to a toilet tank;	
providing, via a bowl fill outlet port of the toilet fill valve, a second portion of the water to a water flow regulator, wherein an extended portion of the toilet fill valve forms the bowl fill outlet port, wherein the extended portion is integrally molded with the toilet fill valve, wherein the water flow regulator is in contact with the extended portion of the toilet fill valve, wherein a portion of the water flow regulator inserts into the extended portion of the toilet fill valve and comes into contact with the extended portion of the toilet fill valve;	

restricting, using the water flow regulator, a flow of the second portion of the water;	**Water flow regulator** depcited above restricts the flow of of the second portion of water
providing, via the water flow regulator, the second portion of the water to a tube that is in contact with the water flow regulator; and	
providing, via the tube, the second portion of the water to a toilet tank overfill tube.	The **tube** depicted above carries water to the toilet tank overfill tube/pipe
10. The method of claim 8, further comprising terminating, using the toilet fill valve, the flow of the second portion of the water so that a water level in a toilet bowl is at a predefined level.	**Water flow regulator** dial allows adjustment of water level in bowl and the toilet fill valve terminates the flow of the second portion of the water when the float rises to the point that the actuator arm terminates the flow of water at a predefined level
11. The method of claim 10, wherein the water level is determined at least in part by the water flow regulator.	**Water flow regulator** dial allows adjustment of water level in bowl.
12. The method of claim 8, wherein the extended portion of the toilet fill valve is a portion of a body of the toilet fill valve.	The **bowl fill outlet port** depicted above is a portion of the body of the toilet valve.
13. The method of claim 8, wherein the extended portion of the toilet fill valve extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
14. A method, comprising:	

inserting a portion of a water flow regulator into an extended portion of a body of a toilet fill valve, the portion of the water flow regulator coming into contact with the extended portion of the body of the toilet fill valve, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port, wherein the water flow regulator is configured to constrict a flow rate of water that flows out of the bowl fill outlet port; and	
attaching a tube directly to the water flow regulator, wherein the tube is configured to direct the water from the water flow regulator directly to a toilet tank overflow tube.	
15. The method of claim 14, further comprising preventing the water flow regulator from detaching from the extended portion of the body.	**Water flow regulator** as depicted above is affixed to the extended portion in a manner such that the water flow regulator does not detach from the extended portion

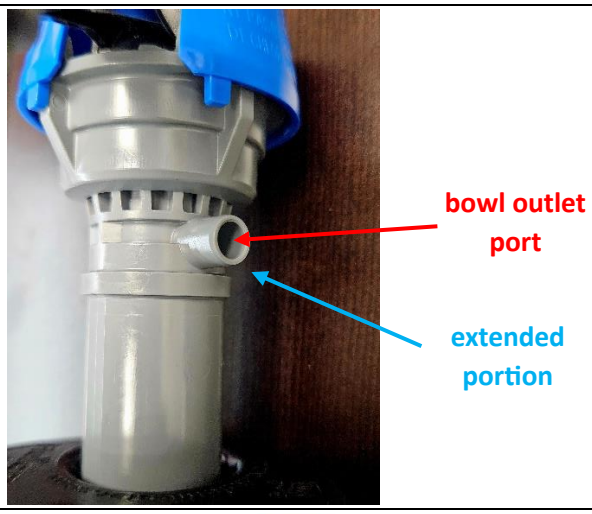
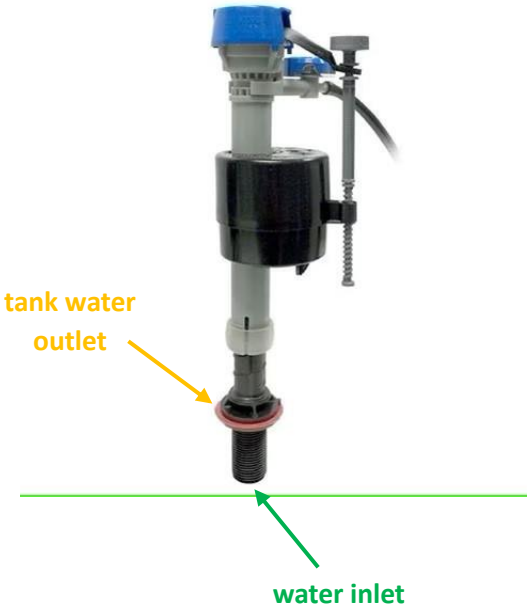
16. The method of claim 15, wherein preventing the water flow regulator from detaching from the extended portion further comprises clamping the water flow regulator to the extended portion.	**Water flow regulator** as depicted above clamps onto the extended portion
17. The method of claim 15, wherein preventing the water flow regulator from detaching from the extended portion further comprises snapping the bowl fill restriction to the extended portion.	**Water flow regulator** as depicted above snaps onto the extended portion
19. The system of claim 1, wherein the water flow regulator comprises an adjustable water flow regulator that is configured to adjust the flow rate of the second portion of the water based at least in part on a setting of the adjustable water flow regulator.	**Water flow regulator** dial allows adjustment of water level in bowl.
20. The method of claim 14, wherein the water flow regulator comprises an adjustable water flow regulator that is configured to adjust the flow rate of the water based at least in part on a setting of the adjustable water flow regulator.	**Water flow regulator** dial allows adjustment of water level in bowl" by adjusting the flow rate of the water.

EXHIBIT F

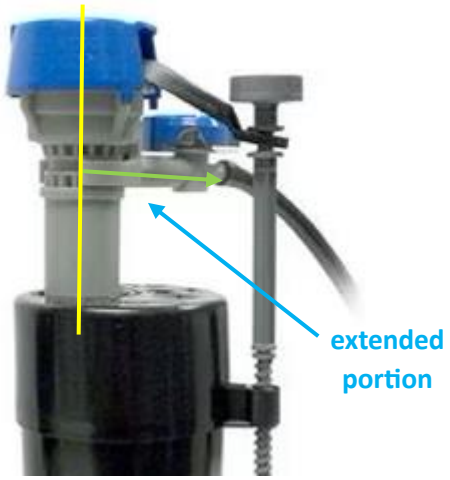
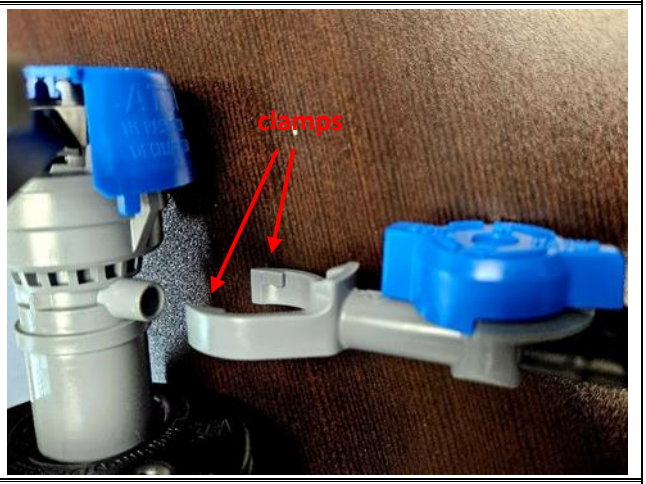
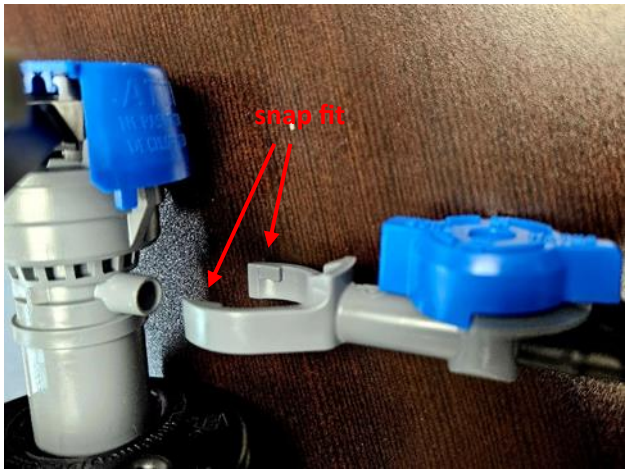
DANCO'S PRELIMINARY INFRINGEMENT CONTENTIONS

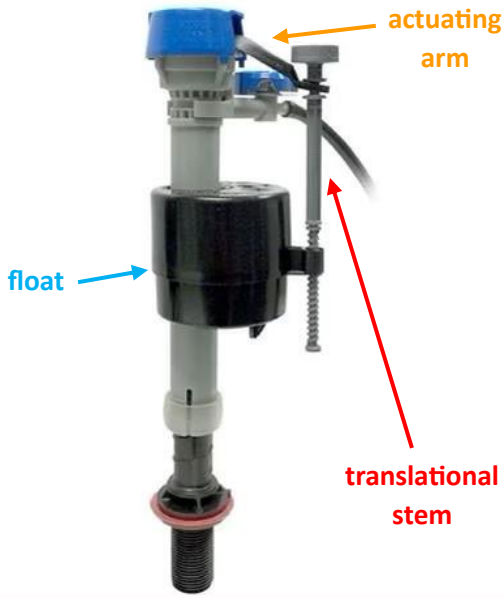
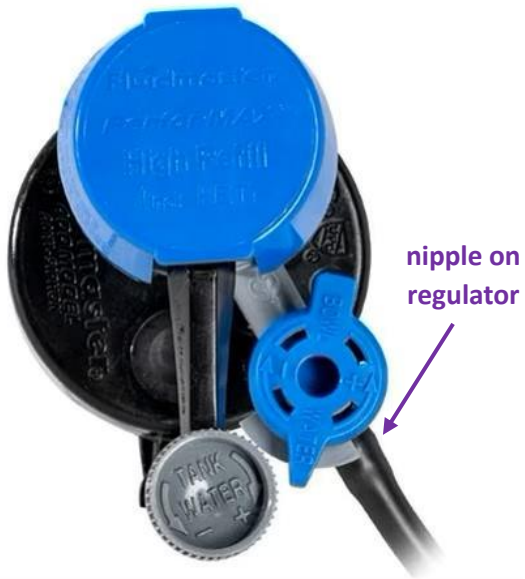
Danco, Inc. v. Fluidmaster, Inc.
Case No. Case No. 8:23-cv-01156-AB-DFM

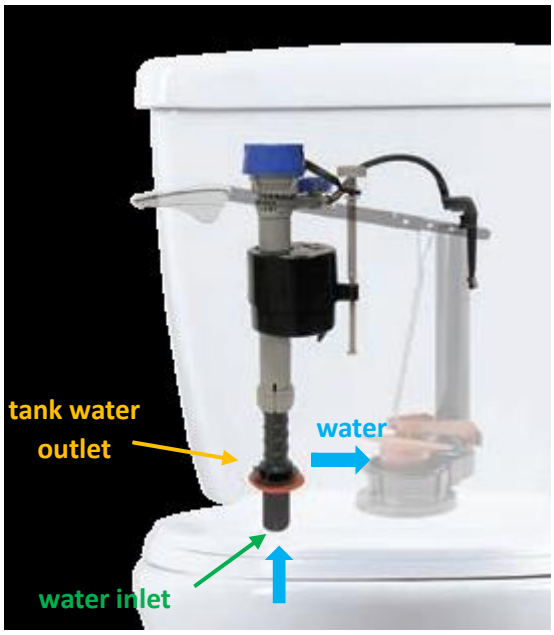
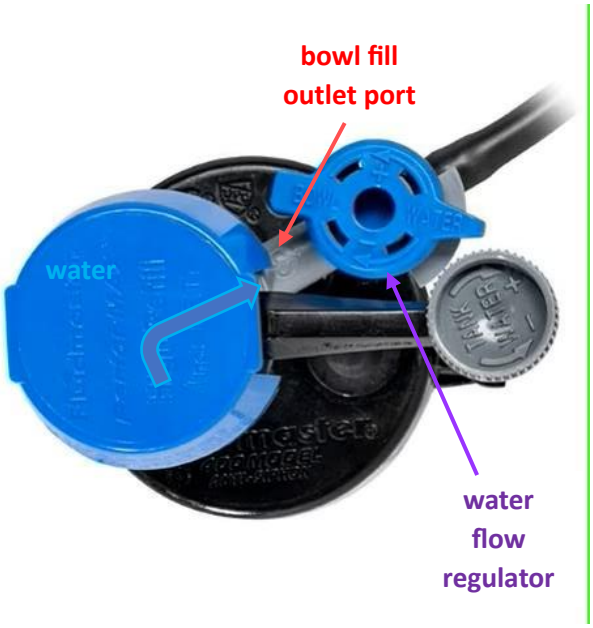
U.S. Patent No. 9,139,993	
Claim	**Fluidmaster 400H series fill valves and kits including/utilizing 400H series fill valves or their equivalent(s)**
1. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:

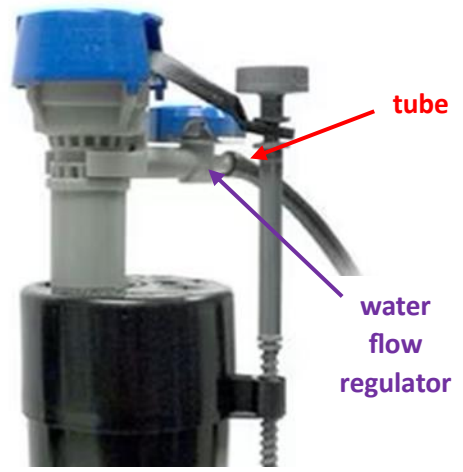
a body comprising an extended portion, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port;	
a water inlet configured to receive water from a water source; and a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	

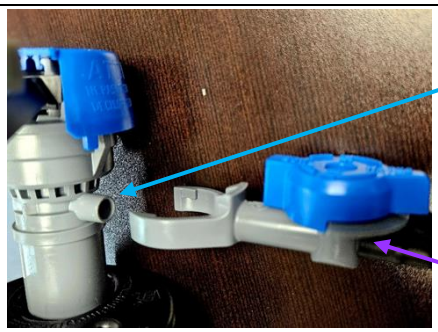
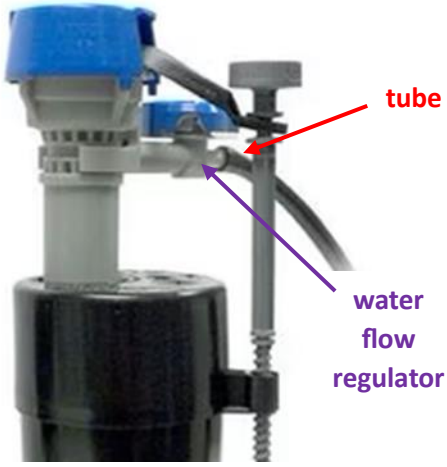
a water flow regulator configured to attach directly to the extended portion of the body, wherein a portion of the water flow regulator is configured to insert into, and come into contact with, the extended portion of the body, wherein the water flow regulator is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the water flow regulator is configured to constrict a flow rate of the second portion of the water that flows through the water flow regulator; and	
a tube that is configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction directly to a toilet tank overflow tube.	

2. The system of claim 1, wherein the extended portion of the body extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
3. The system of claim 1, wherein the water flow regulator is configured to be clamped to the toilet fill valve.	
4. The system of claim 1, wherein the water flow regulator is configured to be snapped onto the toilet fill valve	

5. The system of claim 1, wherein the toilet fill valve further comprises:	
a float; and	
an actuating arm coupled to the float, wherein the actuating arm extends radially relative to a longitudinal axis of the toilet fill valve, wherein the actuating arm is angularly offset relative to the bowl fill valve, thereby preventing an interference with the water flow regulator and a translational stem that extends from the float to a free end of the actuating arm.	
6. The system of claim 1, wherein the water flow regulator further comprises a nipple that is configured to insert into the tube.	
8. A method, comprising:	

receiving, via a water inlet of a toilet fill valve, water from a water supply; providing, via a tank water outlet of the toilet fill valve, a first portion of the water to a toilet tank;	
providing, via a bowl fill outlet port of the toilet fill valve, a second portion of the water to a water flow regulator, wherein an extended portion of the toilet fill valve forms the bowl fill outlet port, wherein the extended portion is integrally molded with the toilet fill valve, wherein the water flow regulator is in contact with the extended portion of the toilet fill valve, wherein a portion of the water flow regulator inserts into the extended portion of the toilet fill valve and comes into contact with the extended portion of the toilet fill valve;	
restricting, using the water flow regulator, a flow of the second portion of the water;	**Water flow regulator** depcited above restricts the flow of of the second portion of water

providing, via the water flow regulator, the second portion of the water to a tube that is in contact with the water flow regulator; and	
providing, via the tube, the second portion of the water to a toilet tank overfill tube.	The **tube** depicted above carries water to the toilet tank overfill tube/pipe
10. The method of claim 8, further comprising terminating, using the toilet fill valve, the flow of the second portion of the water so that a water level in a toilet bowl is at a predefined level.	**Water flow regulator** dial allows adjustment of water level in bowl and the toilet fill valve terminates the flow of the second portion of the water when the float rises to the point that the actuator arm terminates the flow of water at a predefined level
11. The method of claim 10, wherein the water level is determined at least in part by the water flow regulator.	**Water flow regulator** dial allows adjustment of water level in bowl.
12. The method of claim 8, wherein the extended portion of the toilet fill valve is a portion of a body of the toilet fill valve.	The **bowl fill outlet port** depicted above is a portion of the body of the toilet valve.
13. The method of claim 8, wherein the extended portion of the toilet fill valve extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)

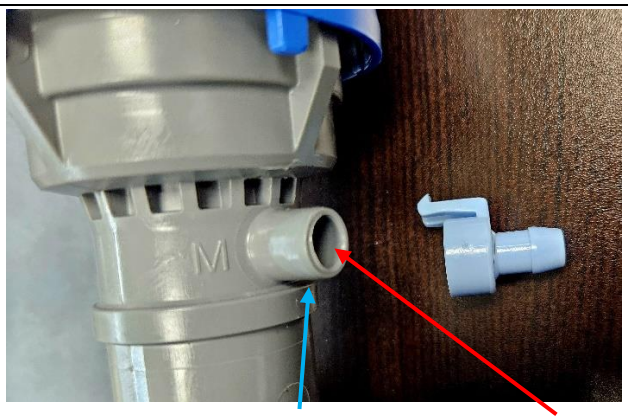
14. A method, comprising:	
inserting a portion of a water flow regulator into an extended portion of a body of a toilet fill valve, the portion of the water flow regulator coming into contact with the extended portion of the body of the toilet fill valve, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port, wherein the water flow regulator is configured to constrict a flow rate of water that flows out of the bowl fill outlet port; and	
attaching a tube directly to the water flow regulator, wherein the tube is configured to direct the water from the water flow regulator directly to a toilet tank overflow tube.	
15. The method of claim 14, further comprising preventing the water flow regulator from detaching from the extended portion of the body.	**Water flow regulator** as depicted above is affixed to the extended portion in a manner such that the water flow regulator does not detach from the extended portion

16. The method of claim 15, wherein preventing the water flow regulator from detaching from the extended portion further comprises clamping the water flow regulator to the extended portion.	**Water flow regulator** as depicted above is clamped onto extended portion
17. The method of claim 15, wherein preventing the water flow regulator from detaching from the extended portion further comprises snapping the bowl fill restriction to the extended portion.	**Water flow regulator** as depicted above snaps onto extended portion
19. The system of claim 1, wherein the water flow regulator comprises an adjustable water flow regulator that is configured to adjust the flow rate of the second portion of the water based at least in part on a setting of the adjustable water flow regulator.	**Water flow regulator** dial allows adjustment of water level in bowl.
20. The method of claim 14, wherein the water flow regulator comprises an adjustable water flow regulator that is configured to adjust the flow rate of the water based at least in part on a setting of the adjustable water flow regulator.	**Water flow regulator** dial allows adjustment of water level in bowl by adjusting the flow rate of the water.

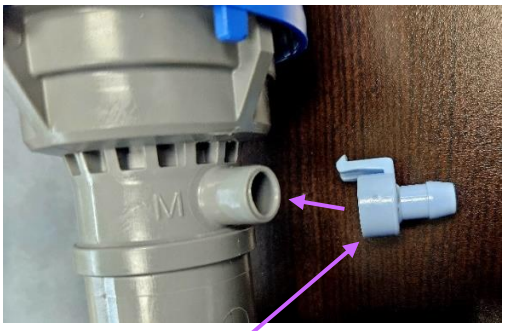
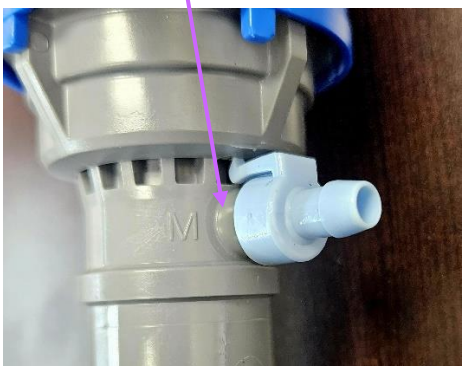
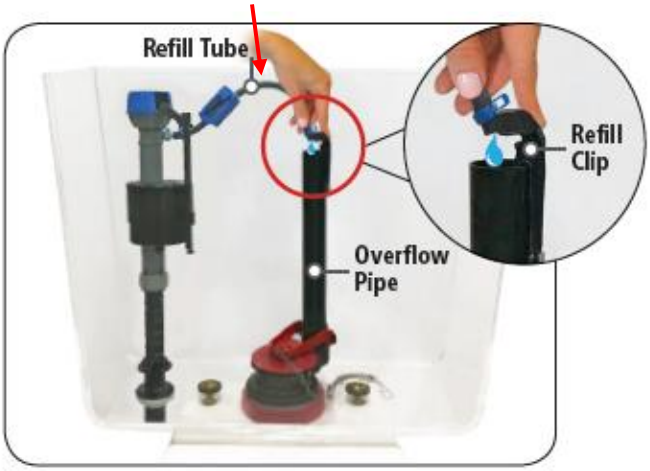
EXHIBIT G

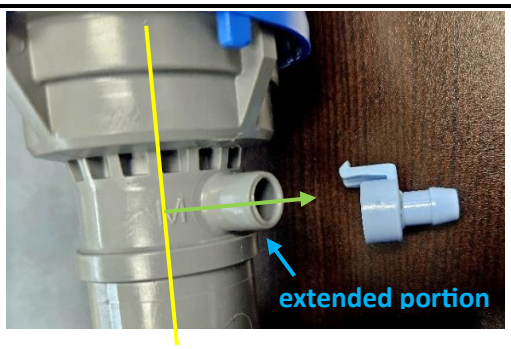
DANCO'S PRELIMINARY INFRINGEMENT CONTENTIONS

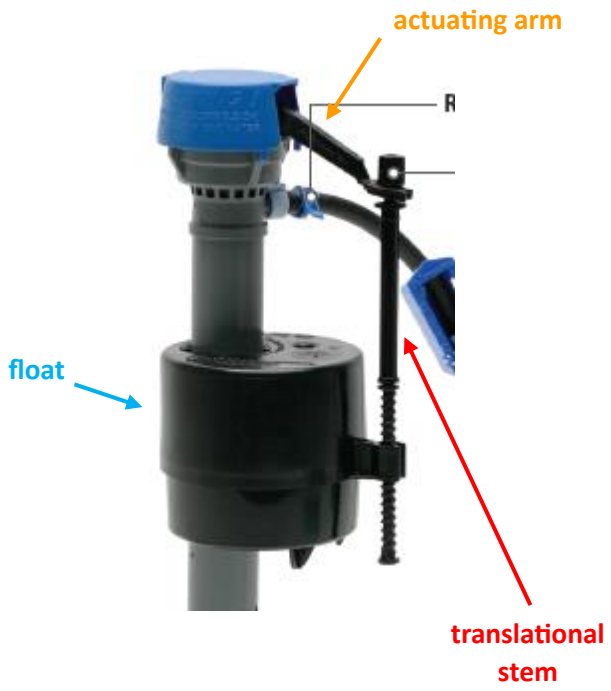
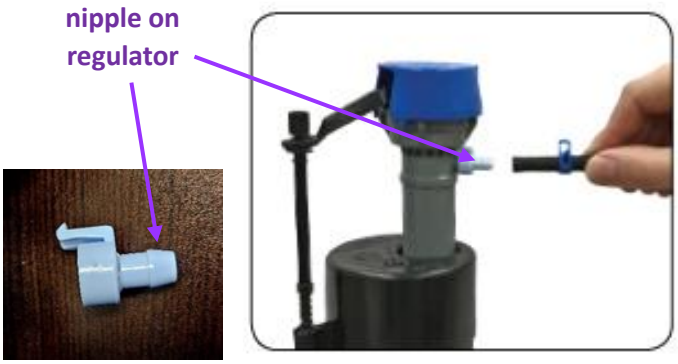
Danco, Inc. v. Fluidmaster, Inc.
Case No. Case No. 8:23-cv-01156-AB-DFM

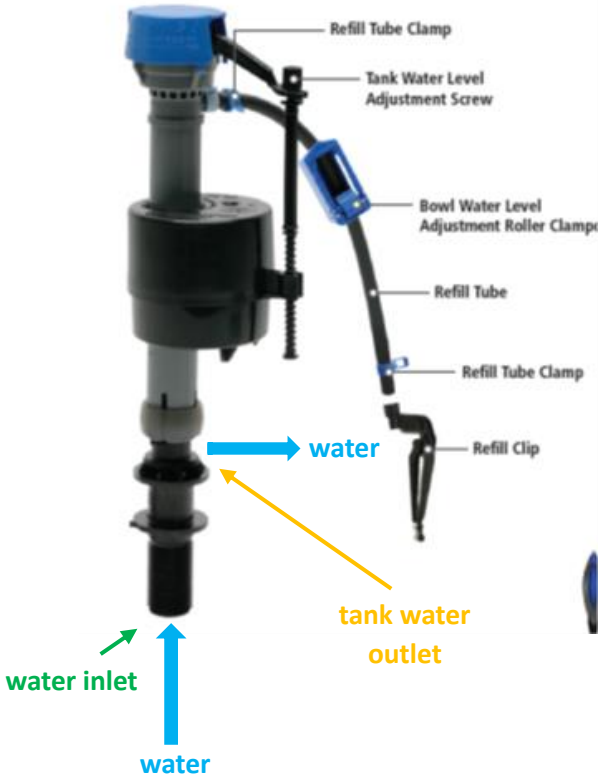
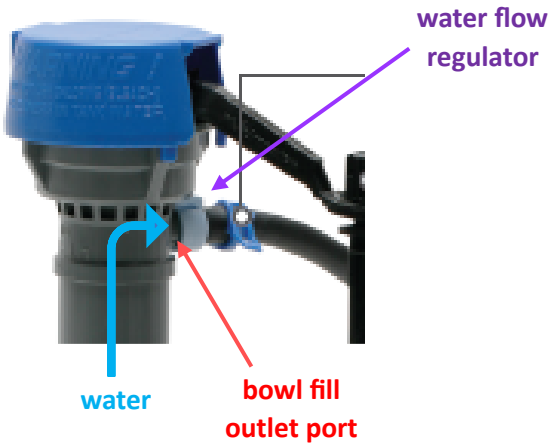
U.S. Patent No. 9,139,993	
Claim	**Fluidmaster 400A series fill valves and kits including/utilizing 400A series fill valves or their equivalent(s)**
1. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:
a body comprising an extended portion, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port;	

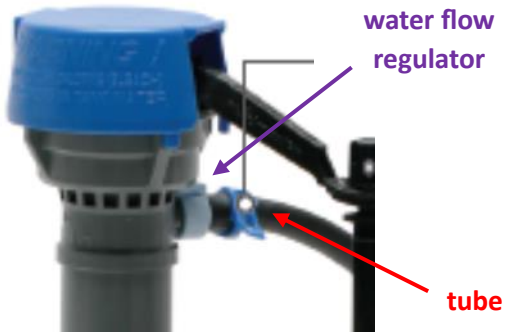
a water inlet configured to receive water from a water source; and a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	

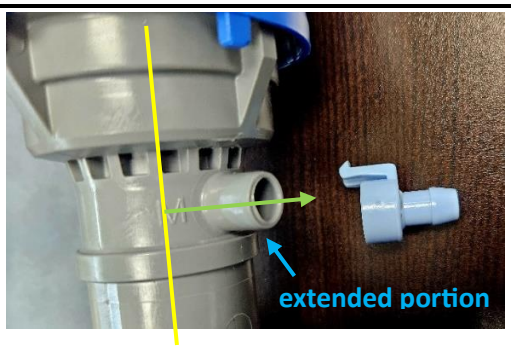
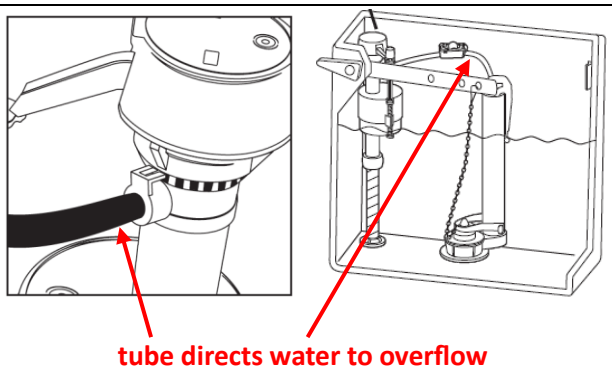
a water flow regulator configured to attach directly to the extended portion of the body, wherein a portion of the water flow regulator is configured to insert into, and come into contact with, the extended portion of the body, wherein the water flow regulator is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the water flow regulator is configured to constrict a flow rate of the second portion of the water that flows through the water flow regulator; and	 water flow regulator inserts into extended portion 
a tube that is configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction directly to a toilet tank overflow tube.	tube directs water to overflow 

2. The system of claim 1, wherein the extended portion of the body extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
3. The system of claim 1, wherein the water flow regulator is configured to be clamped to the toilet fill valve.	
4. The system of claim 1, wherein the water flow regulator is configured to be snapped onto the toilet fill valve	

5. The system of claim 1, wherein the toilet fill valve further comprises:	
a float; and	
an actuating arm coupled to the float, wherein the actuating arm extends radially relative to a longitudinal axis of the toilet fill valve, wherein the actuating arm is angularly offset relative to the bowl fill valve, thereby preventing an interference with the water flow regulator and a translational stem that extends from the float to a free end of the actuating arm.	
6. The system of claim 1, wherein the water flow regulator further comprises a nipple that is configured to insert into the tube.	
8. A method, comprising:	

receiving, via a water inlet of a toilet fill valve, water from a water supply; providing, via a tank water outlet of the toilet fill valve, a first portion of the water to a toilet tank;	
providing, via a bowl fill outlet port of the toilet fill valve, a second portion of the water to a water flow regulator, wherein an extended portion of the toilet fill valve forms the bowl fill outlet port, wherein the extended portion is integrally molded with the toilet fill valve, wherein the water flow regulator is in contact with the extended portion of the toilet fill valve, wherein a portion of the water flow regulator inserts into the extended portion of the toilet fill valve and comes into contact with the extended portion of the toilet fill valve;	
restricting, using the water flow regulator, a flow of the second portion of the water;	**Water flow regulator** depcited above restricts the flow of of the second portion of water

providing, via the water flow regulator, the second portion of the water to a tube that is in contact with the water flow regulator; and	
providing, via the tube, the second portion of the water to a toilet tank overfill tube.	The **tube** depicted above carries water to the toilet tank overfill tube/pipe
10. The method of claim 8, further comprising terminating, using the toilet fill valve, the flow of the second portion of the water so that a water level in a toilet bowl is at a predefined level.	The toilet fill valve terminates the flow of the second portion of the water when the float rises to the point that the actuator arm terminates the flow of water at a predefined level
11. The method of claim 10, wherein the water level is determined at least in part by the water flow regulator.	 **Water flow regulator** determines water level
12. The method of claim 8, wherein the extended portion of the toilet fill valve is a portion of a body of the toilet fill valve.	The **bowl fill outlet port** depicted above is a portion of the body of the toilet valve

13. The method of claim 8, wherein the extended portion of the toilet fill valve extends radially from a longitudinal axis of the toilet fill valve.	 **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
14. A method, comprising:	
inserting a portion of a water flow regulator into an extended portion of a body of a toilet fill valve, the portion of the water flow regulator coming into contact with the extended portion of the body of the toilet fill valve, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port, wherein the water flow regulator is configured to constrict a flow rate of water that flows out of the bowl fill outlet port; and	
attaching a tube directly to the water flow regulator, wherein the tube is configured to direct the water from the water flow regulator directly to a toilet tank overflow tube.	
15. The method of claim 14, further comprising preventing the water flow regulator from detaching from the extended portion of the body.	**Water flow regulator** as depicted above is affixed to the extended portion in a manner such that the water flow regulator does not detach from the extended portion

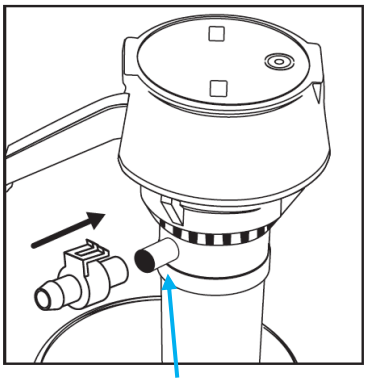
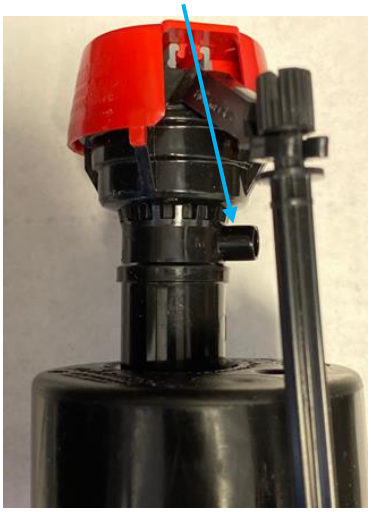
16. The method of claim 15, wherein preventing the water flow regulator from detaching from the extended portion further comprises clamping the water flow regulator to the extended portion.	**Water flow regulator** as depicted above clamps onto extended portion
17. The method of claim 15, wherein preventing the water flow regulator from detaching from the extended portion further comprises snapping the bowl fill restriction to the extended portion.	**Water flow regulator** as depicted above snaps onto extended portion

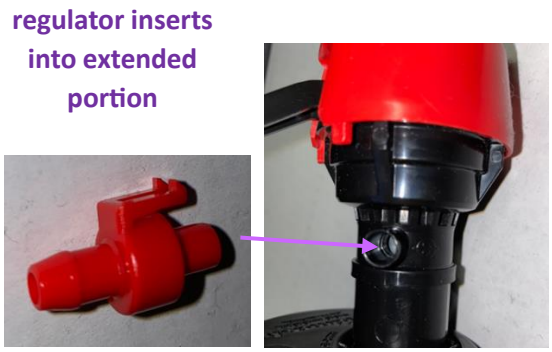
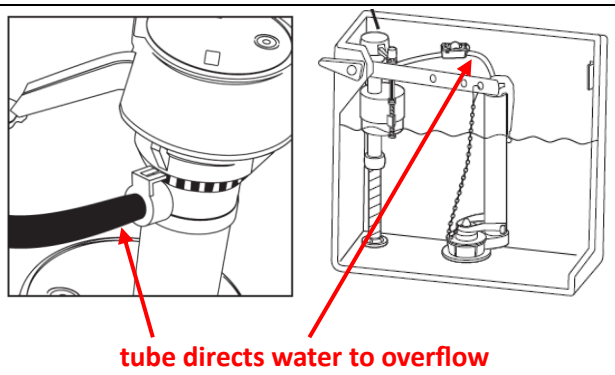
EXHIBIT H

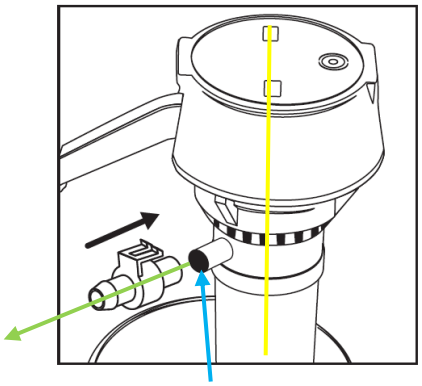
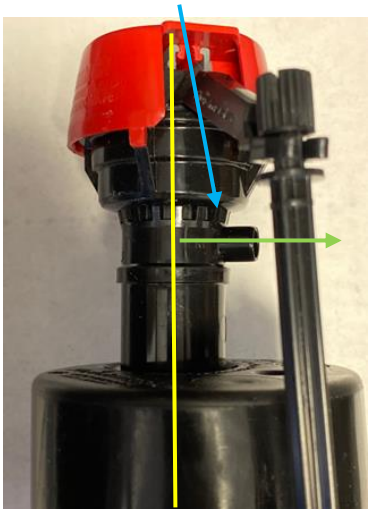
DANCO'S PRELIMINARY INFRINGEMENT CONTENTIONS

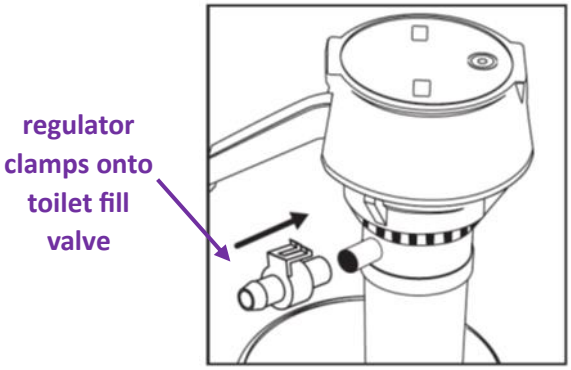
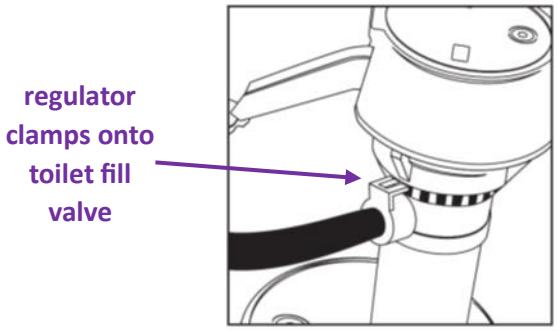
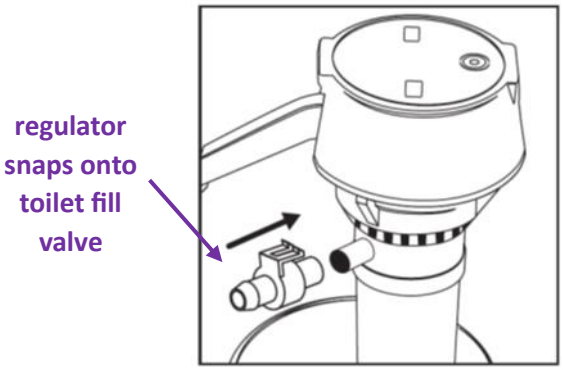
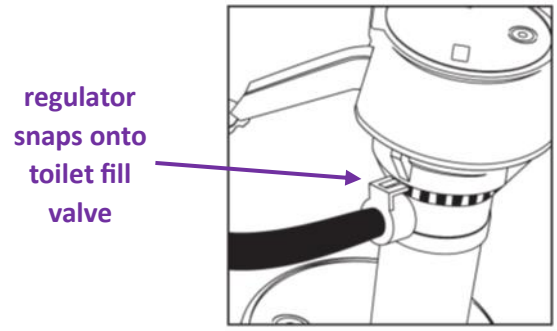
Danco, Inc. v. Fluidmaster, Inc.
Case No. Case No. 8:23-cv-01156-AB-DFM

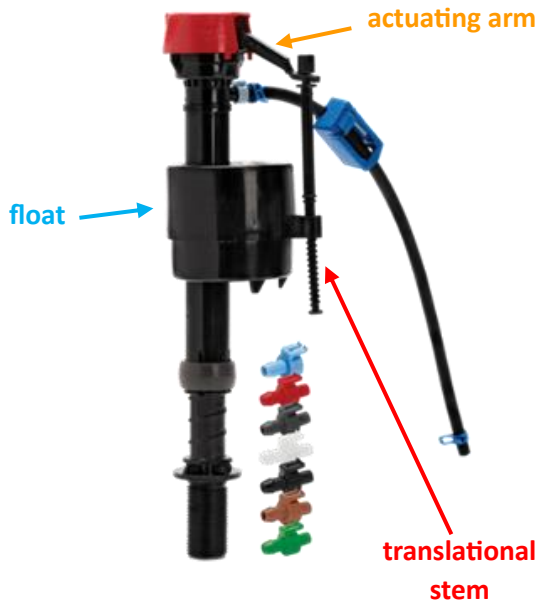
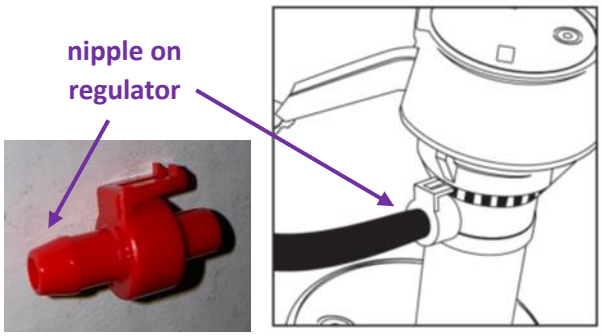
U.S. Patent No. 9,139,993	
Claim	**Fluidmaster PRO45U/PRO45HR series fill valves and kits including/utilizing PRO45U/PRO45HR series fill valves or their equivalent(s)**
1. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:

a body comprising an extended portion, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port;	 extended portion 
a water inlet configured to receive water from a water source; and	 water inlet

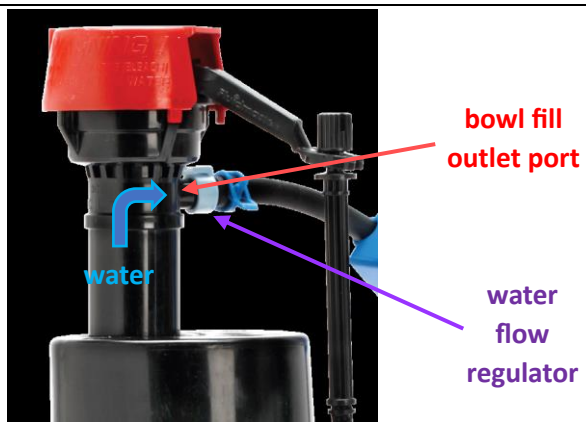
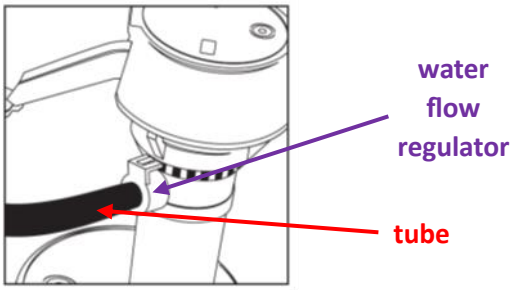
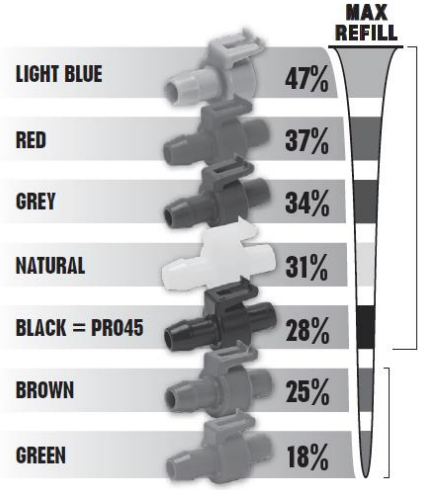
a tank water outlet configured to provide a first portion of the water to a toilet tank during at least a portion of a flush cycle;	
a water flow regulator configured to attach directly to the extended portion of the body, wherein a portion of the water flow regulator is configured to insert into, and come into contact with, the extended portion of the body, wherein the water flow regulator is configured to receive a second portion of the water from the bowl fill outlet port during at least a portion of the flush cycle, wherein the water flow regulator is configured to constrict a flow rate of the second portion of the water that flows through the water flow regulator; and	
a tube that is configured to attach directly to the bowl fill restriction, wherein the tube is configured to direct the second portion of the water from the bowl fill restriction directly to a toilet tank overflow tube.	

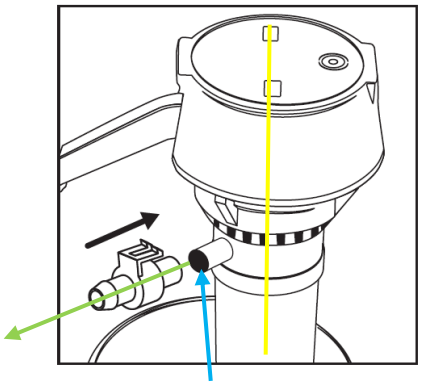
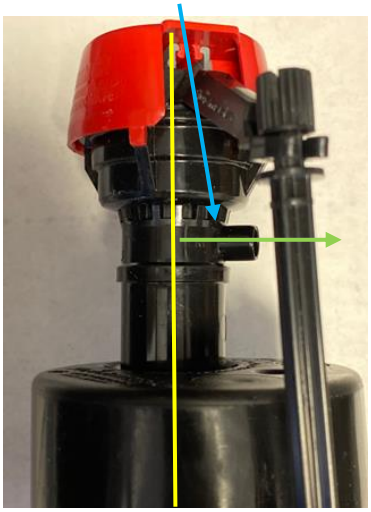
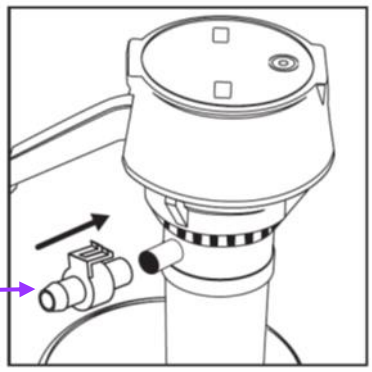
2. The system of claim 1, wherein the extended portion of the body extends radially from a longitudinal axis of the toilet fill valve.	 extended portion  **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)

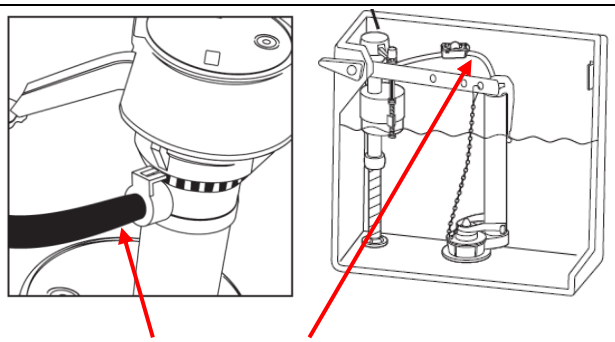
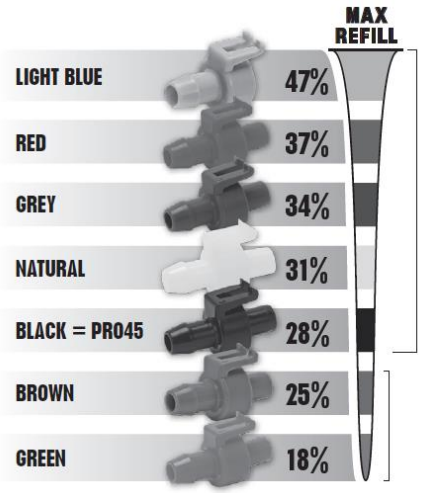
3. The system of claim 1, wherein the water flow regulator is configured to be clamped to the toilet fill valve.	 
4. The system of claim 1, wherein the water flow regulator is configured to be snapped onto the toilet fill valve	 

5. The system of claim 1, wherein the toilet fill valve further comprises:	
a float; and	
an actuating arm coupled to the float, wherein the actuating arm extends radially relative to a longitudinal axis of the toilet fill valve, wherein the actuating arm is angularly offset relative to the bowl fill valve, thereby preventing an interference with the water flow regulator and a translational stem that extends from the float to a free end of the actuating arm.	
6. The system of claim 1, wherein the water flow regulator further comprises a nipple that is configured to insert into the tube.	
8. A method, comprising:	

receiving, via a water inlet of a toilet fill valve, water from a water supply;	
providing, via a tank water outlet of the toilet fill valve, a first portion of the water to a toilet tank;	

providing, via a bowl fill outlet port of the toilet fill valve, a second portion of the water to a water flow regulator, wherein an extended portion of the toilet fill valve forms the bowl fill outlet port, wherein the extended portion is integrally molded with the toilet fill valve, wherein the water flow regulator is in contact with the extended portion of the toilet fill valve, wherein a portion of the water flow regulator inserts into the extended portion of the toilet fill valve and comes into contact with the extended portion of the toilet fill valve;	
restricting, using the water flow regulator, a flow of the second portion of the water;	**Water flow regulator** depcited above restricts the flow of of the second portion of water
providing, via the water flow regulator, the second portion of the water to a tube that is in contact with the water flow regulator; and	
providing, via the tube, the second portion of the water to a toilet tank overfill tube.	The **tube** depicted above carries water to the toilet tank overfill tube/pipe
10. The method of claim 8, further comprising terminating, using the toilet fill valve, the flow of the second portion of the water so that a water level in a toilet bowl is at a predefined level.	The toilet fill valve terminates the flow of the second portion of the water when the float rises to the point that the actuator arm terminates the flow of water at a predefined level
11. The method of claim 10, wherein the water level is determined at least in part by the water flow regulator.	 **Water flow regulator** inserts determine water level

12. The method of claim 8, wherein the extended portion of the toilet fill valve is a portion of a body of the toilet fill valve.	The **bowl fill outlet port** depicted above is a portion of the body of the toilet valve
13. The method of claim 8, wherein the extended portion of the toilet fill valve extends radially from a longitudinal axis of the toilet fill valve.	 **extended portion**  **Extended portion** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)
14. A method, comprising:	
inserting a portion of a water flow regulator into an extended portion of a body of a toilet fill valve, the portion of the water flow regulator coming into contact with the extended portion of the body of the toilet fill valve, wherein the extended portion is integrally molded with the body, wherein the extended portion forms a bowl fill outlet port, wherein the water flow regulator is configured to constrict a flow rate of water that flows out of the bowl fill outlet port; and	**water flow regulator** 

attaching a tube directly to the water flow regulator, wherein the tube is configured to direct the water from the water flow regulator directly to a toilet tank overflow tube.	
15. The method of claim 14, further comprising preventing the water flow regulator from detaching from the extended portion of the body.	**Water flow regulator** as depicted above is affixed to the extended portion in a manner such that the water flow regulator does not detach from the extended portion
16. The method of claim 15, wherein preventing the water flow regulator from detaching from the extended portion further comprises clamping the water flow regulator to the extended portion.	**Water flow regulator** as depicted above clamps onto the extended portion
17. The method of claim 15, wherein preventing the water flow regulator from detaching from the extended portion further comprises snapping the bowl fill restriction to the extended portion.	**Water flow regulator** as depicted above snaps onto the extended portion
19. The system of claim 1, wherein the water flow regulator comprises an adjustable water flow regulator that is configured to adjust the flow rate of the second portion of the water based at least in part on a setting of the adjustable water flow regulator.	 Adjustable **water flow regulator** inserts determine water level

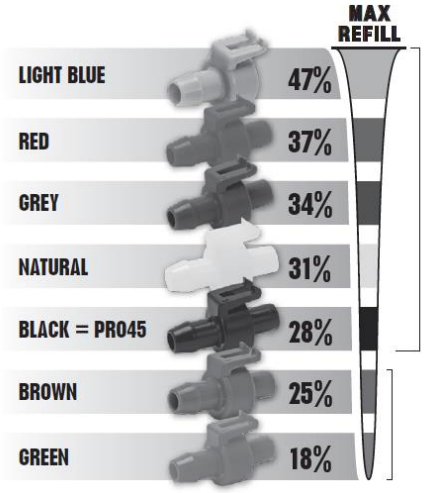
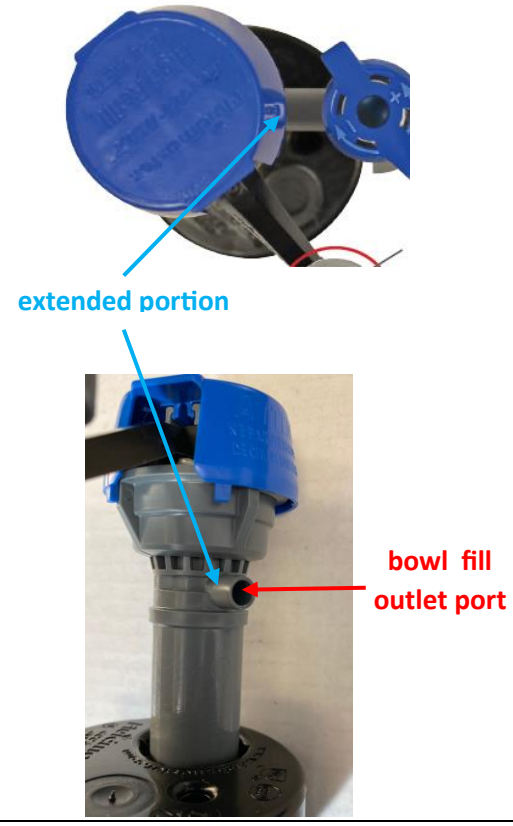
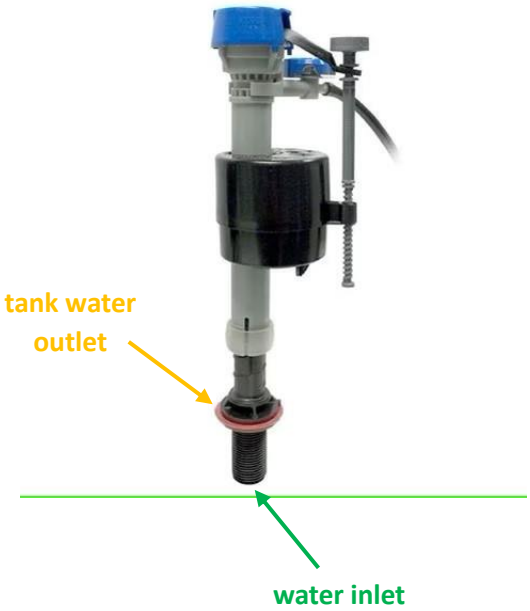
20. The method of claim 14, wherein the water flow regulator comprises an adjustable water flow regulator that is configured to adjust the flow rate of the water based at least in part on a setting of the adjustable water flow regulator.	 **Water flow regulator** inserts determine water level

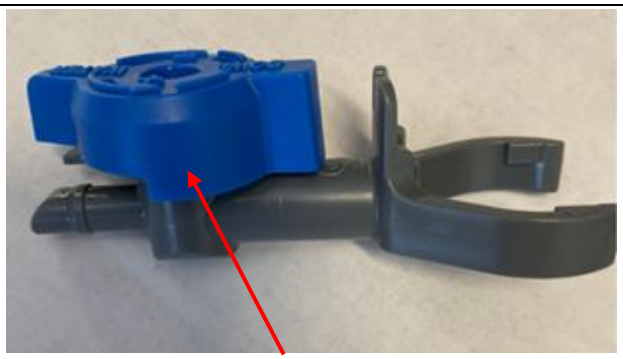
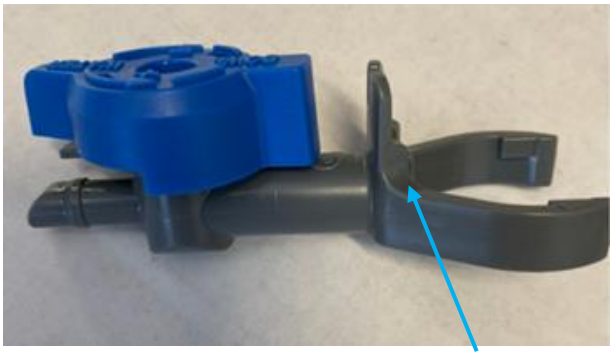
EXHIBIT I

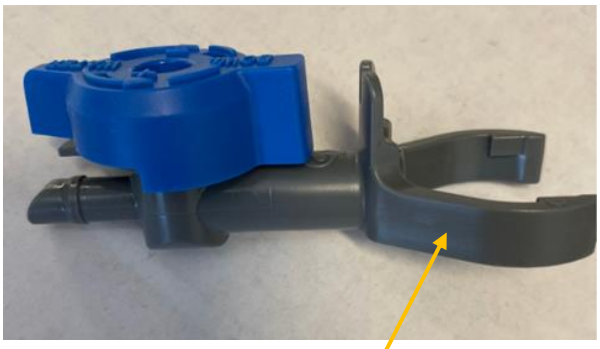
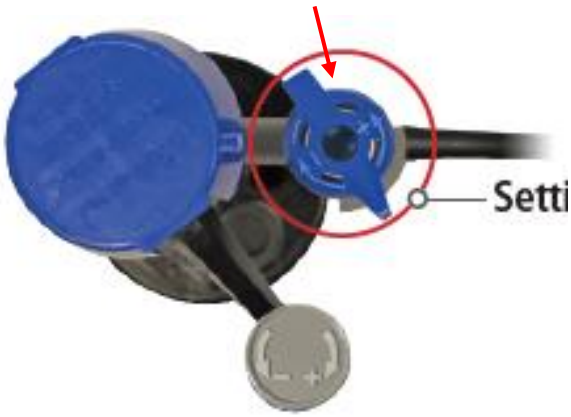
DANCO'S PRELIMINARY INFRINGEMENT CONTENTIONS

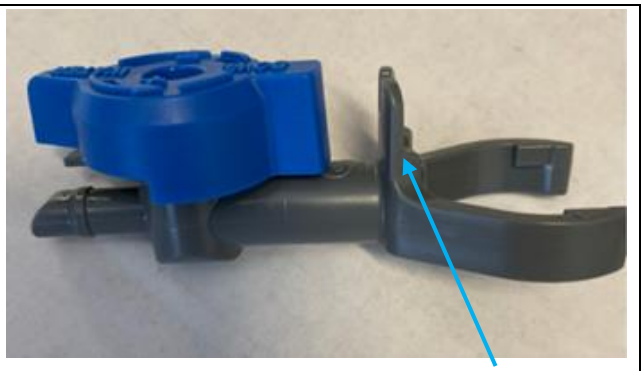
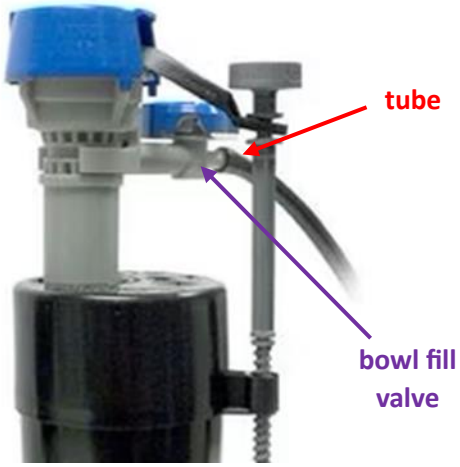
Danco, Inc. v. Fluidmaster, Inc.
Case No. Case No. 8:23-cv-01156-AB-DFM

U.S. Patent No. 10,934,698	
Claim	**Fluidmaster 400H series fill valves and kits including/utilizing 400H series fill valves or their equivalent(s)**
1. A system, comprising:	
a toilet fill valve that comprises:	Accused Fluidmaster fill valve is a toilet fill valve:

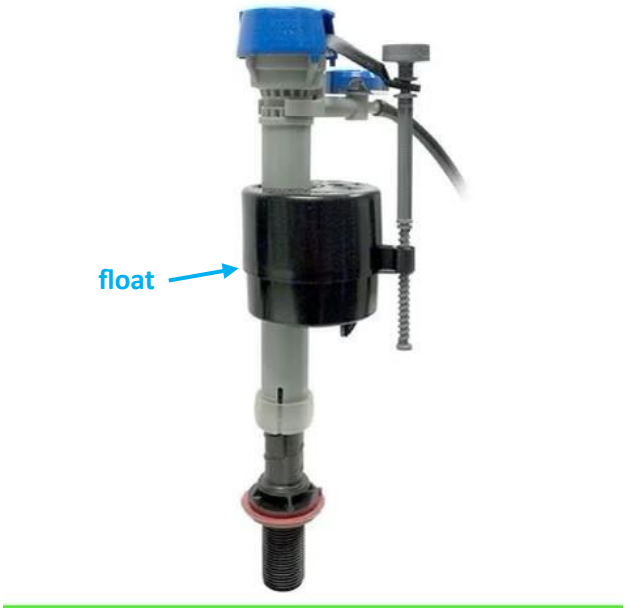
a body comprising an extended portion that forms a bowl fill outlet port;	
a water inlet configured to couple to a water source; and a tank water outlet configured to output water to a toilet tank;	

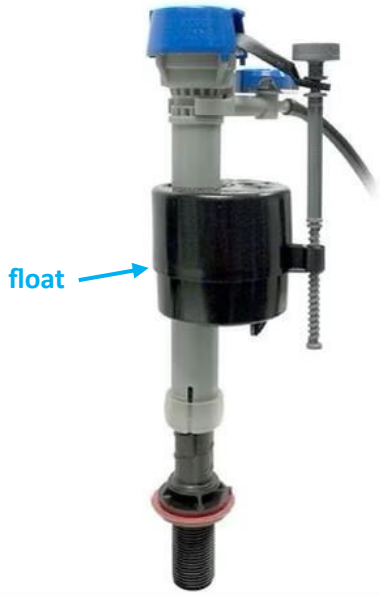
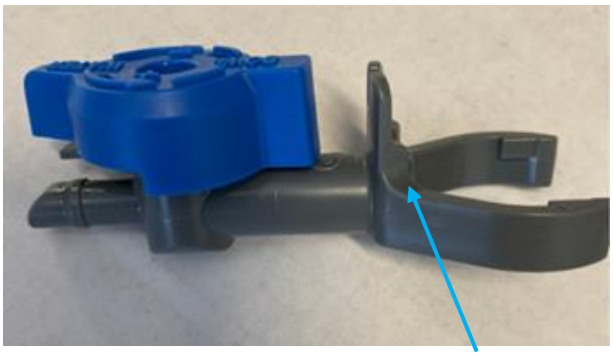
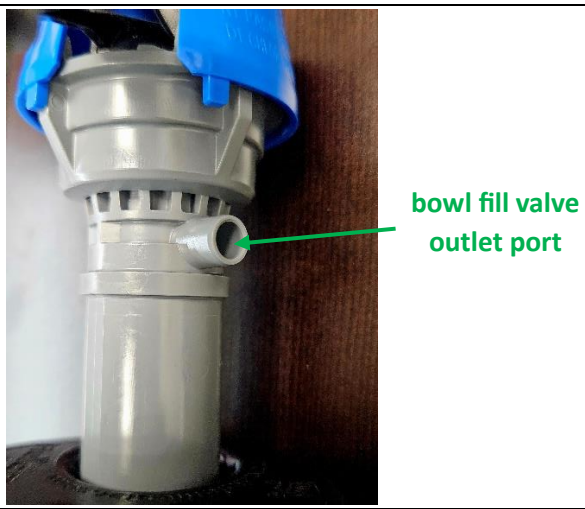
a bowl fill valve configured to attach directly to the body of the toilet fill valve, the bowl fill valve comprising:	 bowl fill valve
a bowl fill valve inlet port configured to mate directly to the bowl fill outlet port of the body of the toilet fill valve;	 bowl fill inlet port
a bowl fill valve outlet port;	 bowl fill valve outlet port

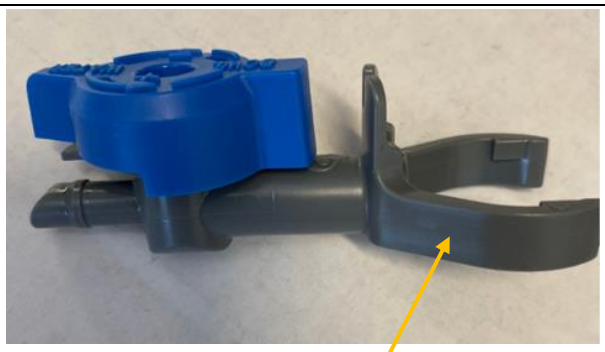
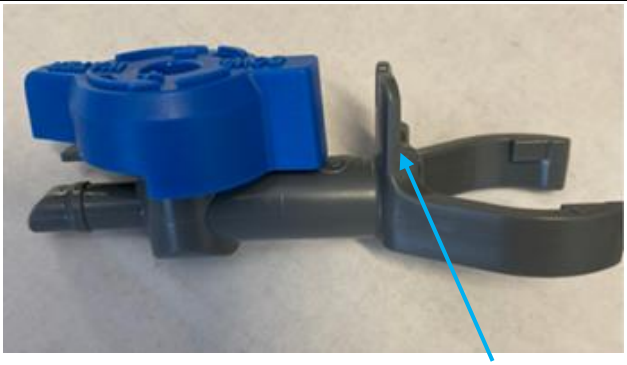
a protrusion configured to insert into a recess of the toilet fill valve and retain the bowl fill valve to the toilet fill valve, the protrusion being configured to snap fit into the recess;	 protrusion recess
a water flow adjustment handle; and	water flow adjustment handle 

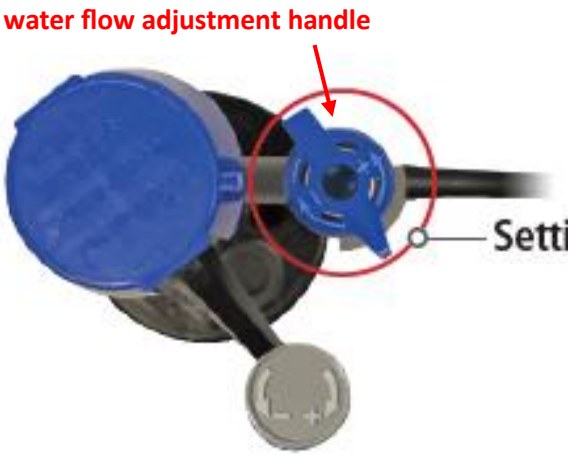
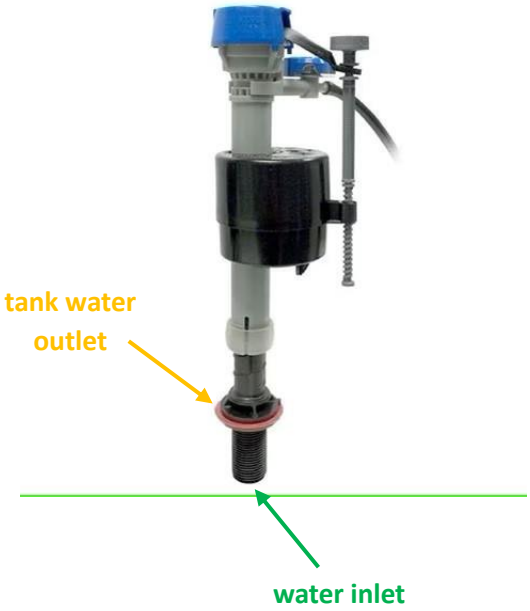
a slot configured to receive an extension of the toilet fill valve and prevent rotation of the bowl fill valve relative to the toilet fill valve; and	
a tube configured to attach directly to the bowl fill valve outlet port of the bowl fill valve.	
2. The toilet system of claim 1, wherein the bowl fill outlet port comprises a male end, and wherein the bowl fill valve inlet port comprises a female receptacle for the male end of the bowl fill outlet port.	Bowl fill valve outlet port as depcited above fits inside bowl fill valve inlet port in a male-female configuration.

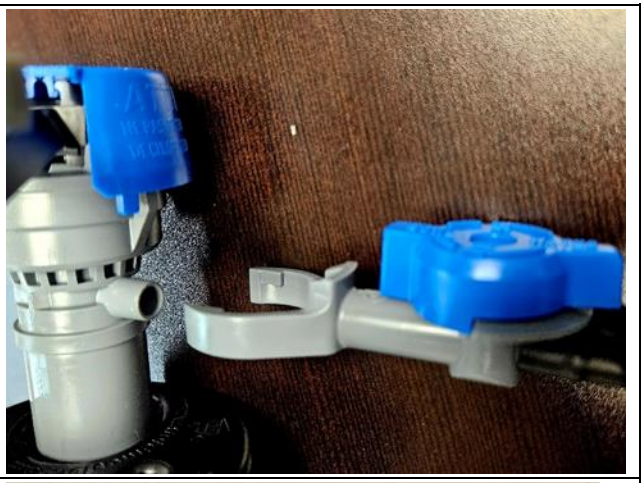
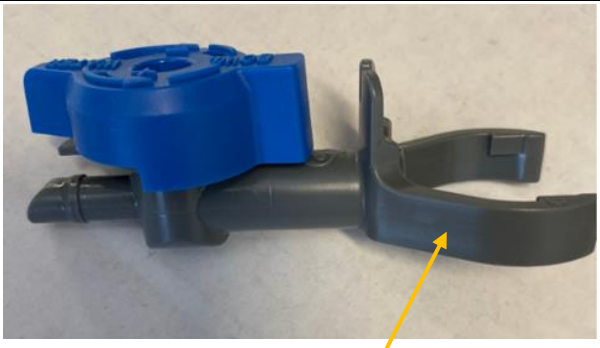
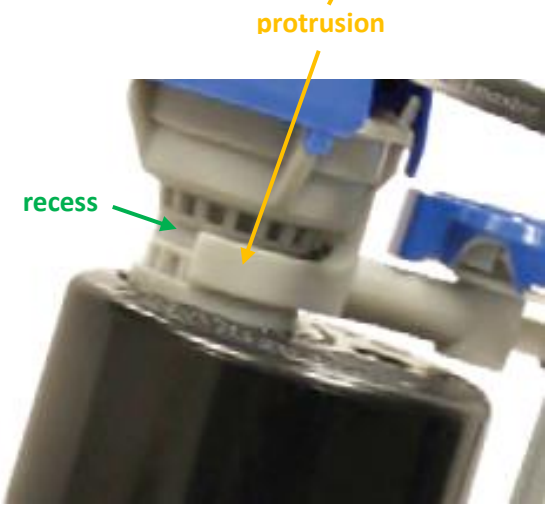
3. The toilet system of claim 1, wherein the protrusion of the bowl fill valve is an annular protrusion located on a bowl fill valve side wall of the bowl fill valve, wherein the recess of the toilet fill valve is an annular recess located on a bowl fill outlet port side wall of the bowl fill outlet port, wherein the slot of the bowl fill valve is located on the bowl fill valve side wall, and wherein the extension of the toilet fill valve is a rib on the bowl fill outlet port side wall.	
4. The toilet system of claim 1, wherein the bowl fill outlet port extends radially from a longitudinal axis of the body of the toilet fill valve.	**Bowl fill outlet port** (in blue) **extends radially** (in green) from **longitudinal axis** of valve (in yellow)

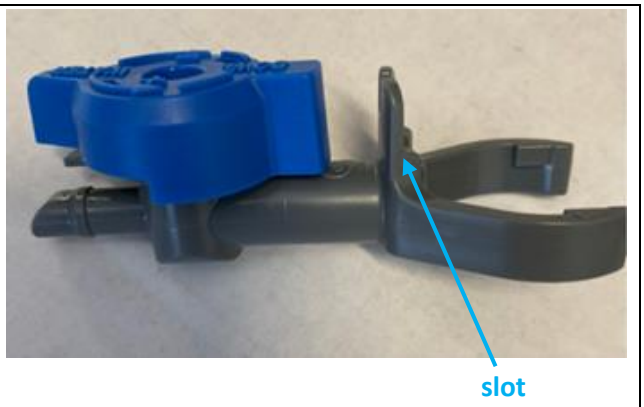
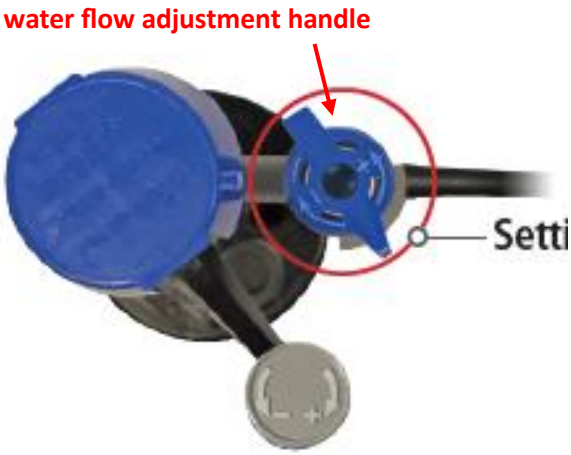
5. The toilet system of claim 4, wherein the toilet fill valve further comprises an actuation arm that extends radially from the longitudinal axis of the body of the toilet fill valve, and wherein the actuation arm is angularly offset relative to the bowl fill outlet port.	
6. The toilet system of claim 1, wherein the toilet fill valve further comprises a float configured to move along at least a portion of the body of the toilet fill valve.	

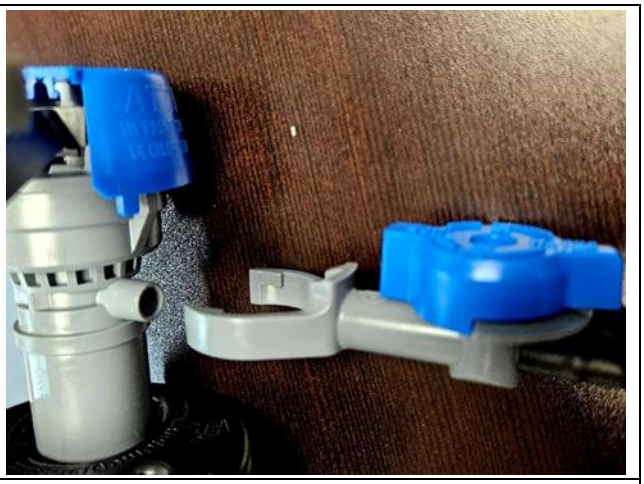
7. The toilet system of claim 6, wherein the at least a portion of the body of the toilet fill valve extends through the float.	
8. A bowl fill valve, comprising:	
a bowl fill valve inlet port configured to mate directly to a bowl fill outlet port of a body of a toilet fill valve;	
a bowl fill valve outlet port configured to attach directly to a tube that provides water from the bowl fill valve outlet port to an overflow tube;	

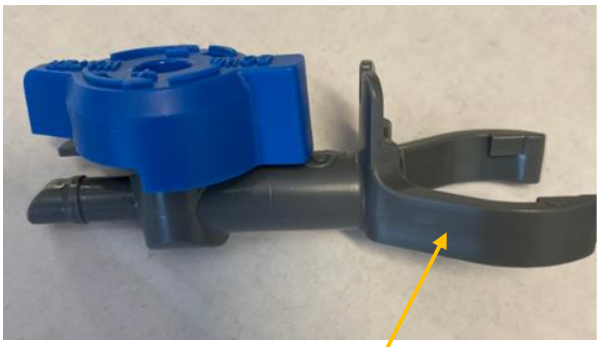
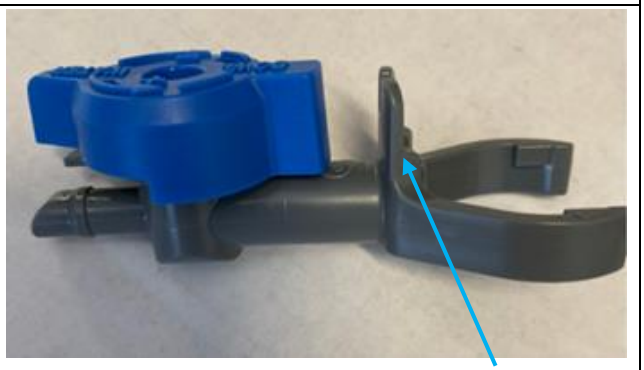
a protrusion configured to insert into a recess of the toilet fill valve and retain the bowl fill valve to the toilet fill valve, the protrusion being configured to snap fit into the recess;	 protrusion recess
a slot configured to receive an extension of the toilet fill valve and prevent rotation of the bowl fill valve relative to the toilet fill valve; and	 slot

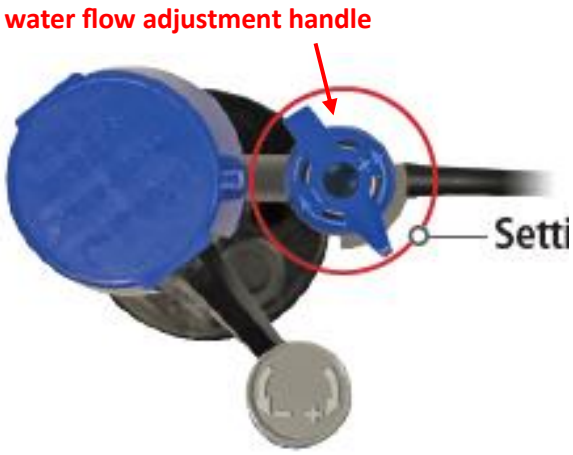
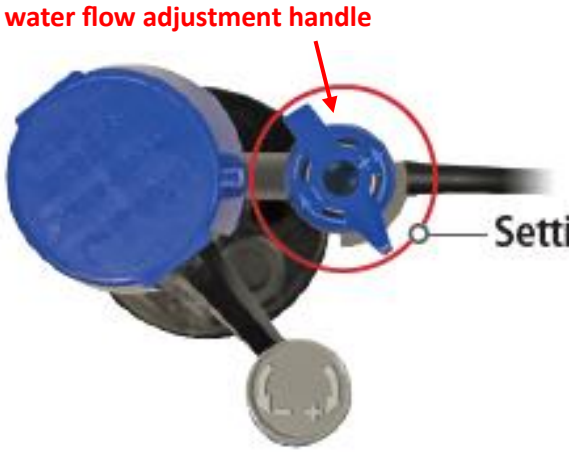
a water flow adjustment handle being configured to adjust water flow from the bowl fill valve inlet port to the bowl fill valve outlet port.	
9. The bowl fill valve of claim 8, wherein the bowl fill valve inlet port comprises a female receptacle for a male end of the bowl fill outlet port.	Bowl fill valve outlet port as depcited above fits inside bowl fill valve inlet port in a male-female configuration.
10. A method, comprising:	
coupling a water inlet of a toilet fill valve to a water source;	
attaching a bowl fill valve directly to a body of the toilet fill valve by at least:	

mating a bowl fill valve inlet port of the bowl fill valve directly to a bowl fill outlet port that extends from the body of the toilet fill valve;	
snap fitting a protrusion of the bowl fill valve into a recess of the toilet fill valve; and	 

inserting an extension of the toilet fill valve into a slot of the bowl fill valve, wherein the slot is configured to prevent rotation of the bowl fill valve relative to the toilet fill valve; and	
attaching a tube directly to a bowl fill valve outlet port of the bowl fill valve.	
11. The method of claim 10, further comprising adjusting a flow of water out of the bowl fill valve.	
12. A bowl fill valve, comprising:	

a bowl fill valve inlet port configured to mate directly to a bowl fill outlet port of a body of a toilet fill valve;	
a bowl fill valve outlet port configured to attach directly to a tube that provides water from the bowl fill valve outlet port to an overflow tube;	

a protrusion on the bowl fill valve configured to snap fit into a recess of the toilet fill valve and retain the bowl fill valve to the toilet fill valve;	 protrusion recess
a slot configured to receive an extension of the toilet fill valve and prevent rotation of the bowl fill valve relative to the toilet fill valve; and	 slot

means for adjusting water flow out of the bowl fill valve outlet port.	
13. The bowl fill valve of claim 12, wherein the means for adjusting water flow out of the bowl fill valve outlet port comprises an adjustment handle.	
14. The toilet system of claim 1, wherein the bowl fill valve inlet port is configured to be inserted within a portion of the bowl fill outlet port.	Bowl fill valve outlet port as depcited above fits inside bowl fill valve inlet port in a male-female configuration.