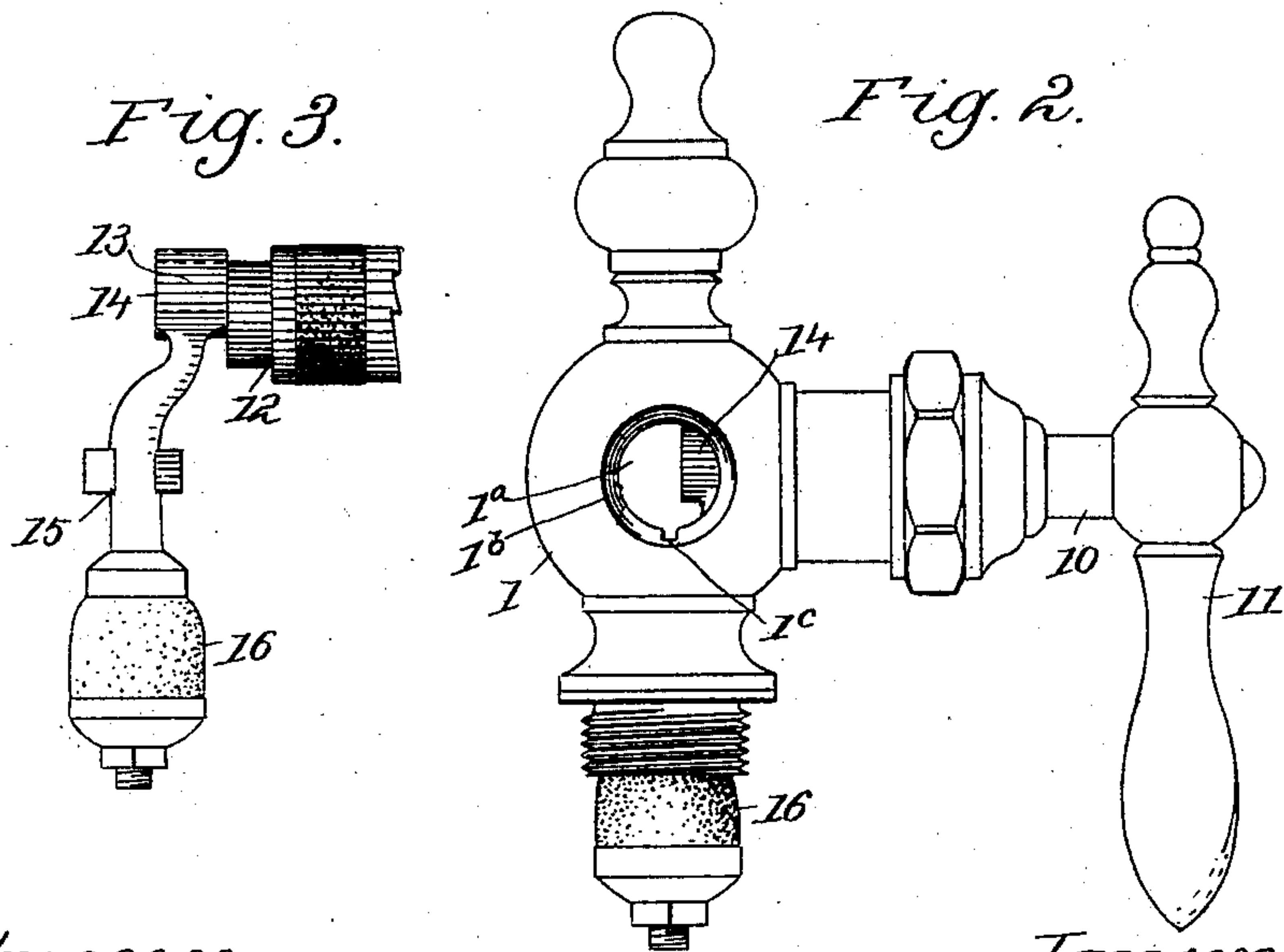
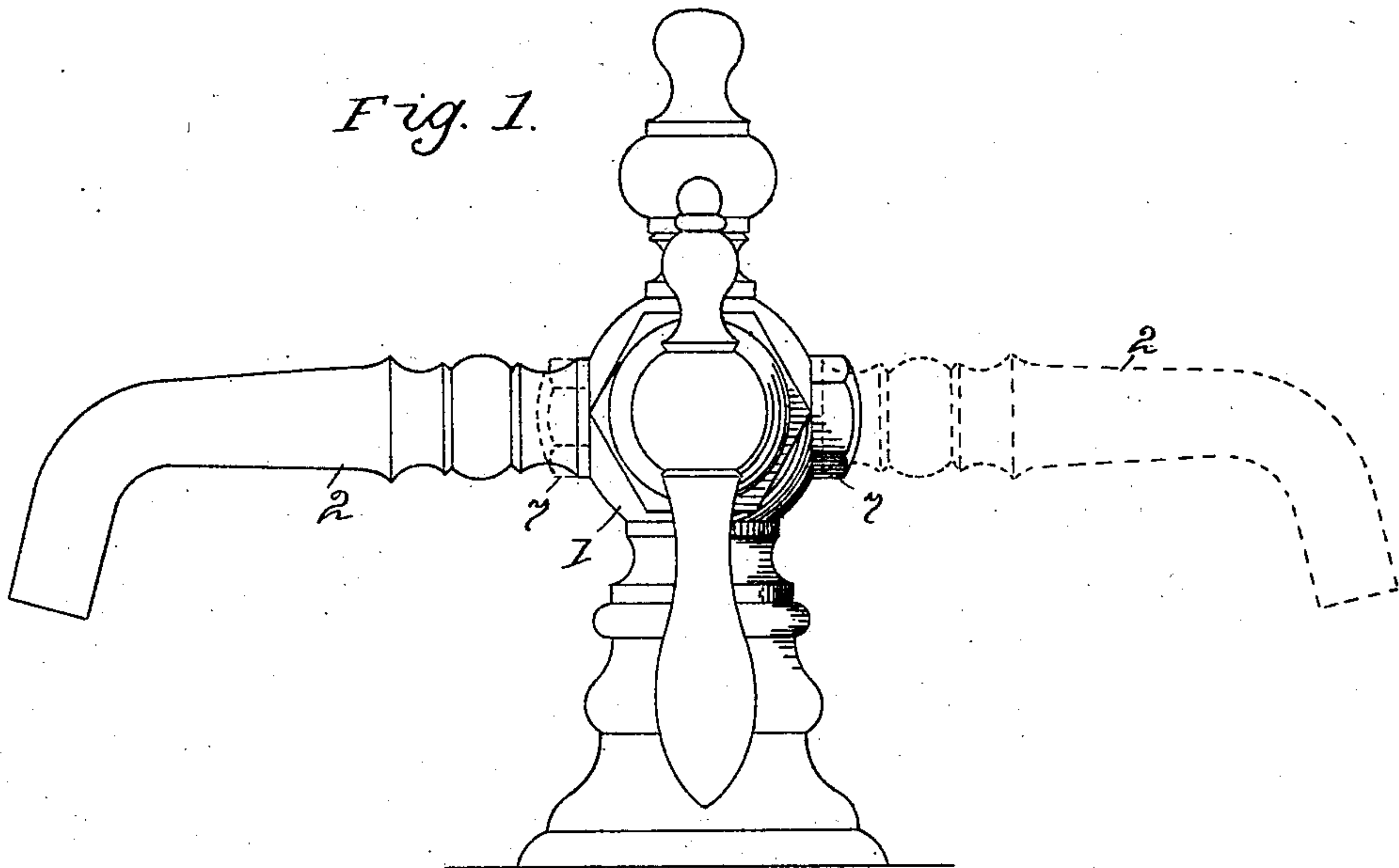


No. 879,401.

PATENTED FEB. 18, 1908.

P. & H. MUELLER.  
RIGHT AND LEFT BASIN COCK.  
APPLICATION FILED JUNE 19, 1906.

2 SHEETS—SHEET 1.



Witnesses

Nora Graham.  
Ira C. Graham.

Inventors.

Philip Mueller & Henry Mueller.  
by L. P. Graham  
their attorney.

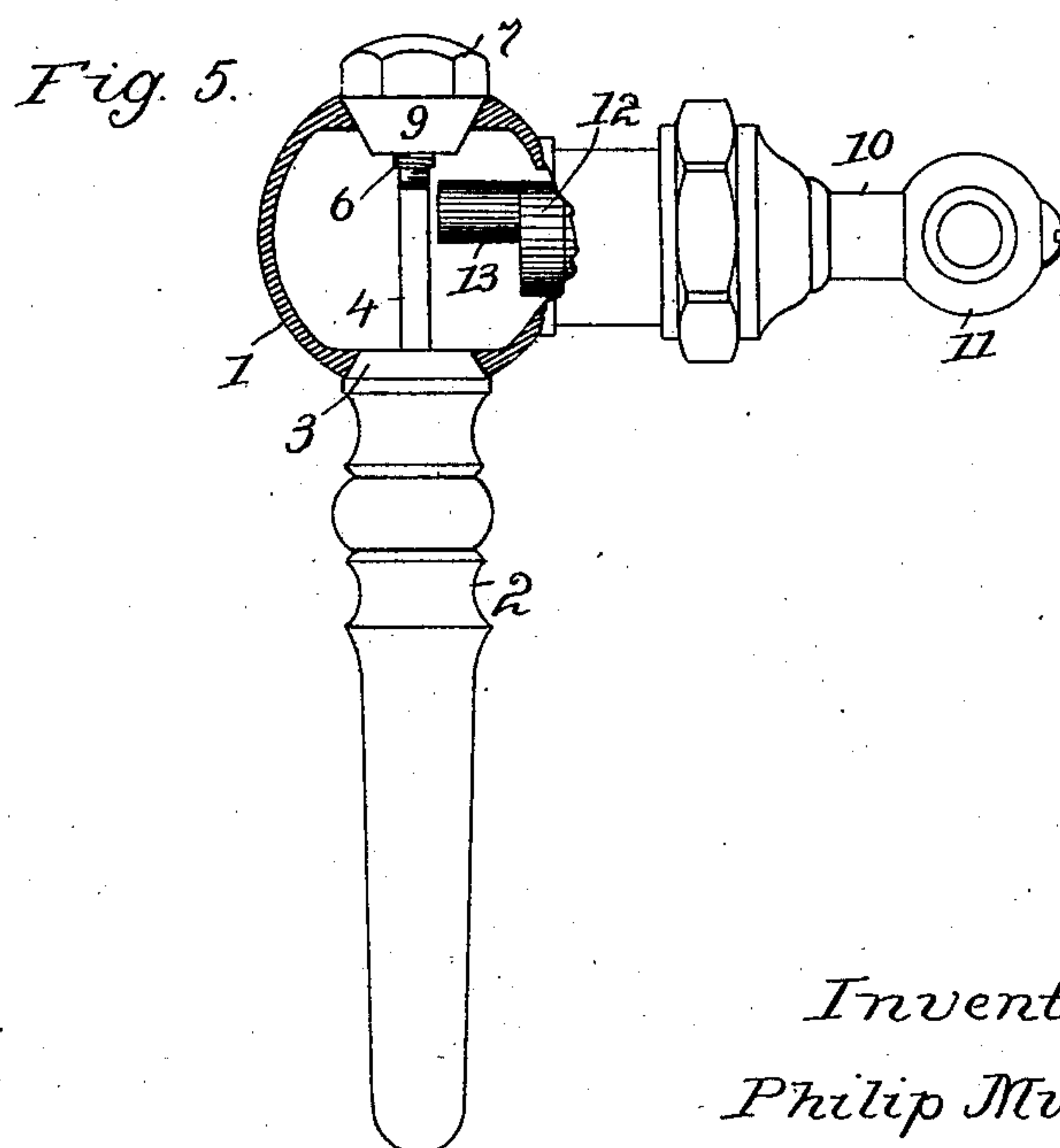
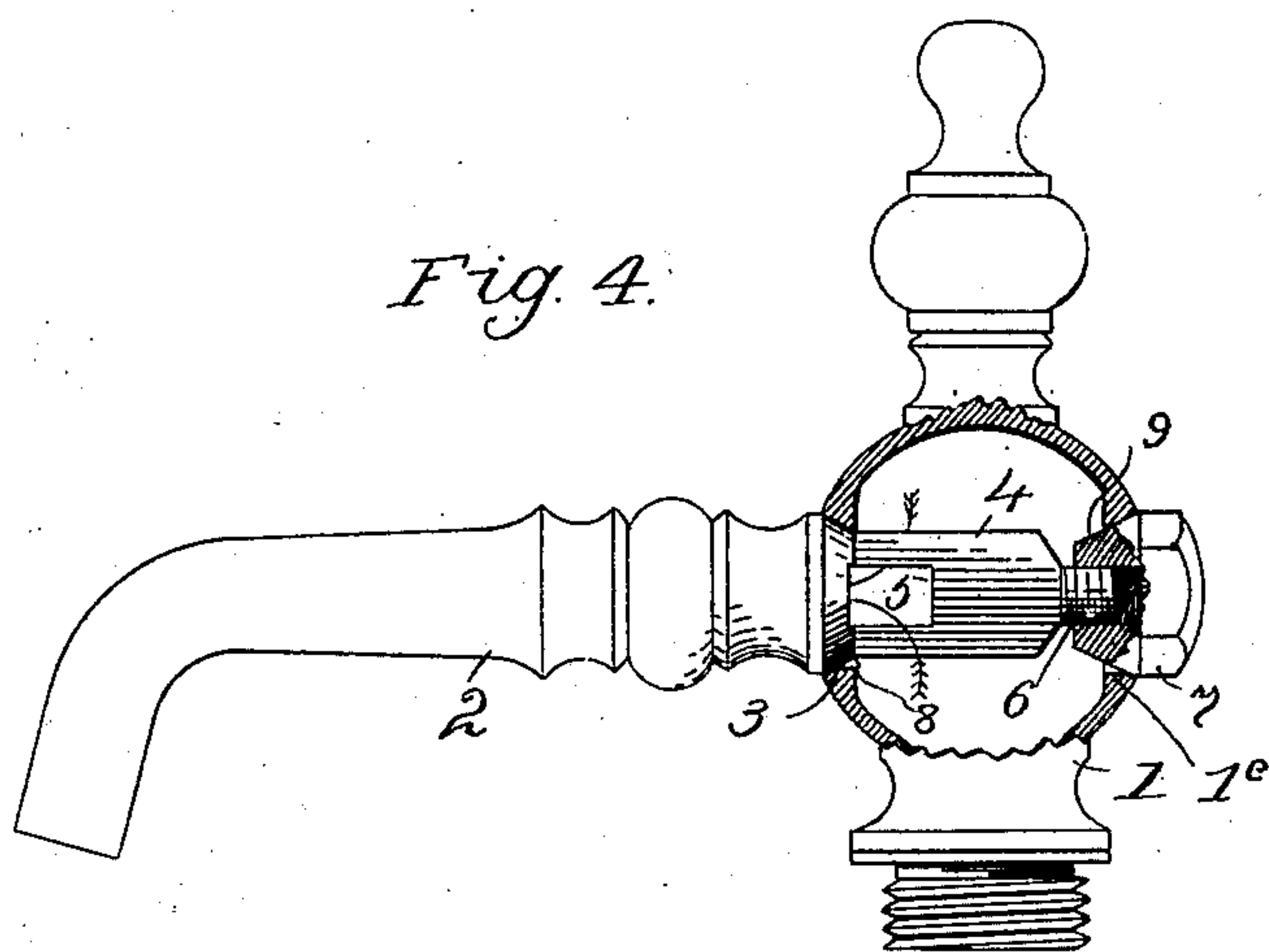
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2 SHEETS—SHEET 2.



Witnesses.

*Nora Graham.*

*Edna C. Graham.*

*Inventors.*

*Philip Mueller and*

*Henry Mueller.*

*by L. P. Graham*  
*their attorney.*



# UNITED STATES PATENT OFFICE.

PHILIP MUELLER AND HENRY MUELLER, OF DECATUR, ILLINOIS, ASSIGNORS TO H. MUELLER MANUFACTURING COMPANY, OF DECATUR, ILLINOIS, A CORPORATION OF ILLINOIS.

## RIGHT AND LEFT BASIN-COCK.

No. 879,401.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed June 19, 1906. Serial No. 322,487.

*To all whom it may concern:*

Be it known that we, PHILIP MUELLER and HENRY MUELLER, residents of the city of Decatur, county of Macon, and State of Illinois, have invented a certain new and useful Right and Left Basin-Cock, of which the following is a specification.

The object of this invention is to provide a cock that may be readily adapted for use either as a right hand cock or a left hand cock.

The invention is exemplified in the structure hereinafter described and it is defined in the appended claims.

In the drawings forming part of this specification Figure 1 is an elevation of a basin cock embodying our improvements, the spout and securing nut therefor being shown in one position in solid lines and in the opposite position in broken lines. Fig. 2 is an elevation of a part of the body of the cock, showing certain peculiarities of the invention. Fig. 3 is a detail of the ball stem and a fragment of the handle stem, showing how the ball stem is turned aside at its upper end to accommodate the connecting extension of the spout. Fig. 4 is a vertical section through that part of the body with which the spout connects, showing the spout connected therewith. Fig. 5 is a horizontal section through that part of the body with which the spout connects, showing the spout in connection therewith and illustrating the location of the ball stem eccentric with relation to the connecting extension of the spout.

The cock is of the "Fuller" type and it may be made of any size, shape or proportion consistent with the peculiarities hereinafter described and claimed.

The body 1 has circular spout openings 1<sup>a</sup> on opposite sides and the walls 1<sup>b</sup> of said openings are beveled. A notch 1<sup>c</sup> is formed in each beveled wall of the spout openings 1<sup>a</sup>, as shown in Figs 2 and 4, and the notches co-act with a pin on the spout to hold the spout in proper position in the body while the connection of the spout with the body is made. The spout 2 has a beveled bearing surface 3 which conforms to the beveled walls of the openings in the cock body, and it also has the flat and rather thin securing extension 4 which stands on edge and projects into the body of the cock through one of the openings therein, when the spout is connected with

the body. The extension 4 is slotted near its conjunction with the spout, as shown at 5 in Fig. 4, and its other end is contracted, rounded and threaded, as shown at 6. A nut 7 is adapted to be screwed onto the threaded end of the spout extension and it has a beveled bearing surface 9 which corresponds with the bearing 3 of the spout and conforms to the openings in the cock body. A pin 8, seen only in Fig. 4, is formed on the beveled bearing surface of the spout, preferably adjacent to one of the edges of the extension 4, and it fits in a notch 1<sup>c</sup> in the wall of an opening into the cock body, when the spout is in place.

The handle 11 is fastened onto the outer end of shaft 10, and the inner end 12 of shaft 10 is shortened to bring the eccentric bearing 13 to one side of the center of the cock body, out of the way of the securing extension 4 for the spout. The eye 14 at the upper end of the ball stem 15 is turned aside or deflected to avoid extension 4 and connect with eccentric 13. The ball valve 16 is secured to stem 15 and it is opened and closed by rocking the handle, after the usual mode of operation in "Fuller" cocks.

The spout is held in connection with the cock body by means of the nut screwed onto the extension 4, there being a direct pull through the extension on the beveled ground joints, and the nut and the spout effectively close the openings through the cock body. The slot 5 makes a free passage way from the cock body to the spout, as indicated by arrows in Fig. 4.

In changing the cock from a left hand to a right hand, or the reverse, the nut 7 is unscrewed, the spout is disconnected from the body, the extension 4 is inserted through the opposite side opening in the cock body, with pin 8 resting in a notch 1<sup>c</sup>, and the nut is placed in the opening previously occupied by the spout and screwed onto the threaded end 6 of the extension 4. The engagement of the pin 8 with a notch 1<sup>c</sup> assures proper presentation of the spout and it holds the spout in place while the nut 7 is being tightened.

The nut 7 is preferably formed with a projecting polygonal wrench seat, in order to facilitate removal of the spout while the cock is in place with the nut presented toward a wall.



What we claim as new and desire to secure by Letters Patent is;—

1. In a cock, the combination of a body having spout openings on opposite sides, a spout shaped to close either of the openings, an extension of the spout having a threaded end, and a nut on said end and closing the opposite opening in the body, substantially as described.

2. In a cock, the combination of a body having spout openings on opposite sides, the walls of said openings being circular and beveled, a spout having a bearing surface adapted to close either of said openings, an extension of the spout adapted to pass through the body and having a threaded end, and a nut for the threaded end of the spout extension having a circular, beveled bearing surface adapted to the openings in the cock body, substantially as described.

3. In a cock, the combination of a body having spout openings on opposite sides, a spout shaped to close either of the openings, an extension of the spout adapted to pass through the body and having a threaded end and a slot at the conjunction of the extension with the spout, and a nut connecting with the threaded end of the spout extension and closing the opposite opening in the body, substantially as described.

4. In a cock of the "Fuller" type, the combination of a body having spout openings on opposite sides, a spout shaped to close either opening, a thin extension of the spout having a threaded end, a nut connecting with the spout extension and closing the opposite opening in the body, a handle shaft having an eccentric for the ball stem placed at one side of the spout extension, and a ball stem deflected at its upper end to connect with the eccentric, substantially as described.

5. In a cock, the combination of a body having spout openings on opposite sides, a spout shaped to close either of the openings, an extension of the spout adapted to pass through the body and having a threaded end, a nut connected with the threaded end of the spout extension and closing the opposite opening in the body, notches in the walls of the openings and a pin on the spout adapted to engage either notch, substantially as described.

6. In a cock of the "Fuller" type, the combination of the body having opposite lateral circular openings, each with a notch in its wall, a spout shaped to fit either opening, a pin on the spout engaging said notch when the spout is in proper position, a thin extension at the inner end of the spout adapted to pass through and stand on edge within the body and having a threaded end, said extension being slotted at its juncture with the spout, and a nut on said threaded end adapted to fit the other opening and close its notch.

7. In a cock of the "Fuller" type, the com-

bination with the body having opposite lateral openings, a spout shaped to fit either opening, an extension having a thin portion standing on edge across the inner end of the spout and projecting through the body, and means connected with the extension for closing the other opening; of a handle shaft having an eccentric standing at one side of said extension, a valve, and a valve stem having an eye engaging said eccentric.

8. In a cock of the "Fuller" type, the combination with the body having opposite lateral openings, a spout shaped to fit either opening, an extension having a thin portion standing on edge across the inner end of the spout and projecting through the body, and means connected with the extension for closing the other opening; of a handle shaft standing at right angles to the length of said extension, an eccentric at its inner end at one side of the extension, a valve, and a stem leading from the valve to the eccentric and deflected so as to pass to one side of said extension.

9. In a cock of the "Fuller" type, the combination with the body having opposite lateral openings, a spout shaped to fit either opening, an extension having a thin portion standing on edge across the inner end of the spout and projecting through the body, and means connected with the extension for closing the other opening; of a handle shaft journaled in the body in a plane at right angles to the width of the extension, an eccentric thereon standing at one side of the extension, a valve movable on a line at right angles to the length of both the shaft and extension, and a valve stem connecting the valve and eccentric.

10. In a cock of the "Fuller" type, the combination with the body having opposite lateral openings, a spout shaped to fit either opening, an extension having a thin portion standing on edge across the inner end of the spout and projecting through the body, and means connected with the extension for closing the other opening; of a handle shaft journaled in the body in a plane at right angles to the width of the extension, an eccentric thereon standing at one side of the extension, a valve movable on a line at right angles to the length of both the shaft and extension, and a stem connecting the valve and eccentric and deflected between its ends so that the valve moves in the vertical plane of the extension while the shaft stands in a horizontal plane with said extension.

In testimony whereof we sign our names in the presence of two subscribing witnesses.

PHILIP MUELLER.  
HENRY MUELLER.

Witnesses:

FRANK W. CRUIKSHANK,  
JOHN L. WADDELL.