

No. 743,602.

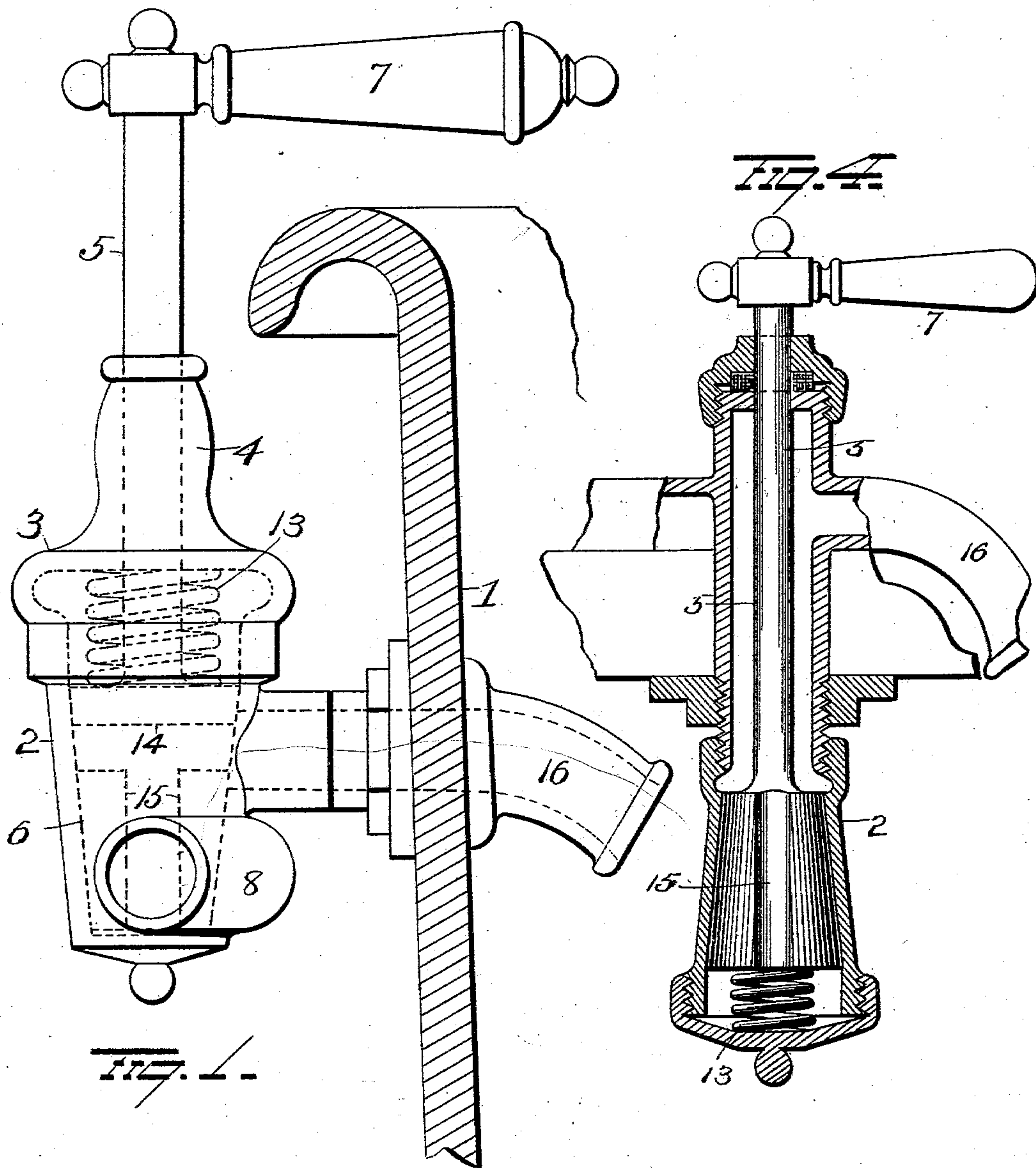
PATENTED NOV. 10, 1903.

H. M. WEAVER.
BATH COCK.

APPLICATION FILED AUG. 27, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES
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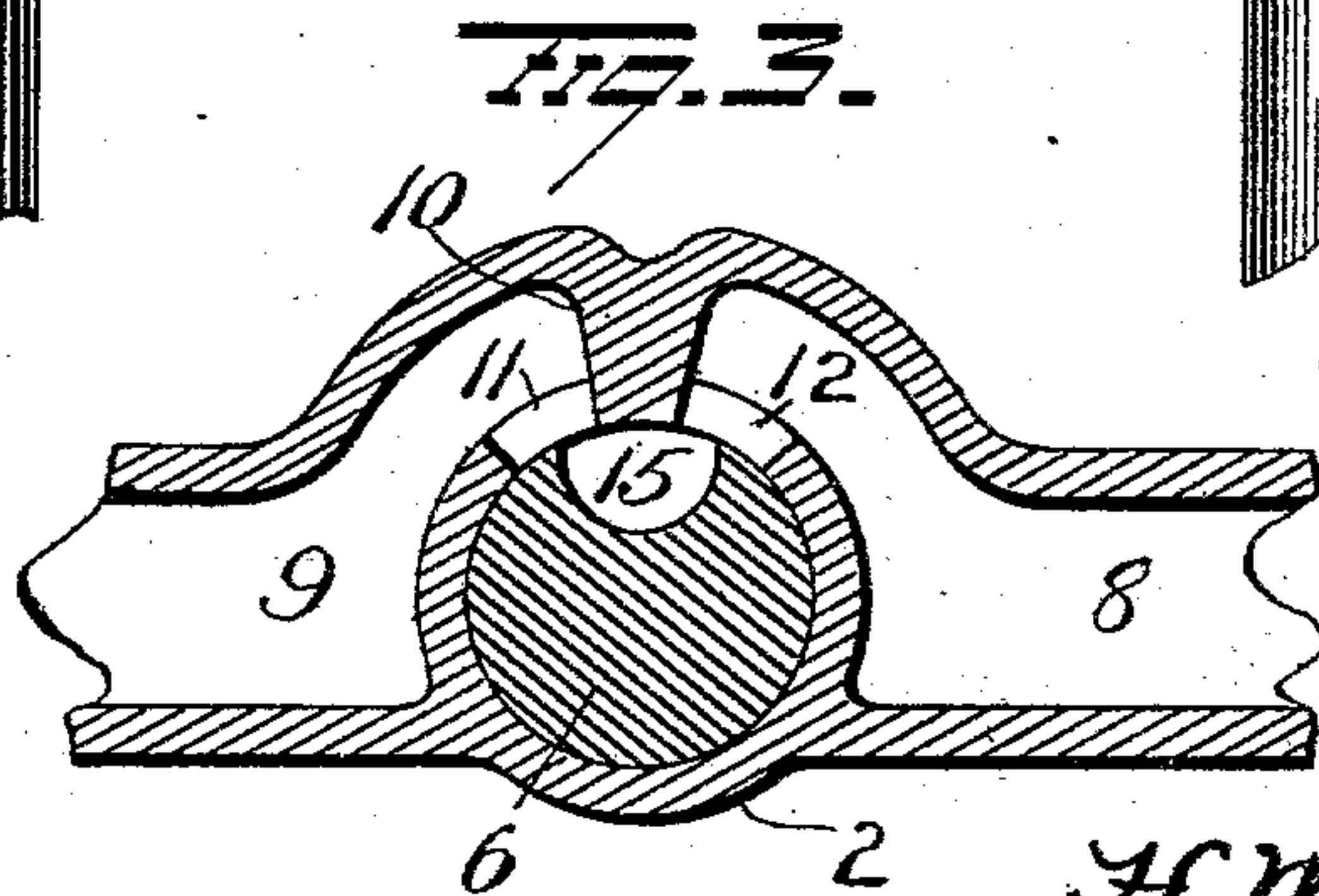
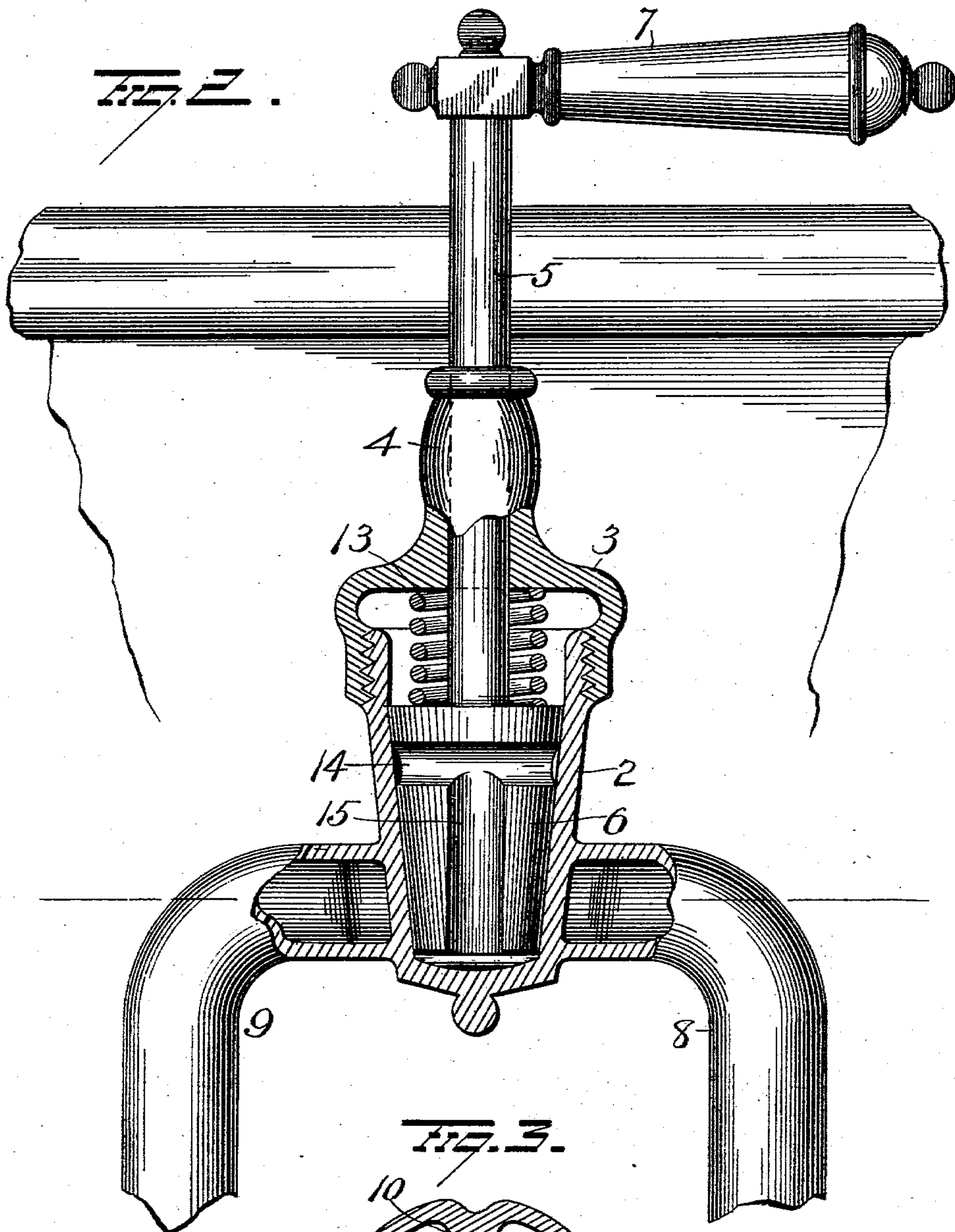
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UNITED STATES PATENT OFFICE.

HENRY M. WEAVER, OF MANSFIELD, OHIO.

BATH-COCK.

SPECIFICATION forming part of Letters Patent No. 743,602, dated November 10, 1903.

Application filed August 27, 1902. Serial No. 121,243. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. WEAVER, a resident of Mansfield, in the county of Richland and State of Ohio, have invented certain new and useful Improvements in Bath-Cocks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in bath-cocks, the object of the invention being to provide a simple and efficient device of this character by means of which hot and cold water can be discharged separately one at a time or commingled and discharged together in any proportion to regulate the temperature of the water.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view illustrating my improvements. Fig. 2 is a view in vertical section. Fig. 3 is a view in horizontal section, and Fig. 4 is a view illustrating a modification.

1 represents the end of a tub, and 2 the casing of my improved cock, which is of a general inverted truncated conical shape, closed at its lower end and screw-threaded at its upper end to receive a cap 3, having an elongated neck 4, forming a firm bearing for the vertical stem 5 of my improved valve or cock 6, a suitable handhold 7 being secured upon the upper end of the stem to facilitate turning the valve.

On opposite sides of casing 2 hot and cold water pipes 8 and 9, respectively, are located and are provided with curved ducts curving around the face of casing 2, separated by a partition 10 and communicating with the casing by means of openings 11 and 12, respectively, on opposite sides of the partition.

The valve 6, which may be integral with stem 5 or be secured thereto, is of a truncated inverted conical shape to fit snugly in casing 2 and held firmly in position by means of a spring 13, coiled around stem 5 and pressing down on the valve to hold it water-tight in

the casing. A peripheral groove or channel 14 is provided around the valve near its upper end, and a longitudinal groove or channel 15 extends from the lower end of the valve to groove 14 to direct the water therein, from which it is discharged through nozzle 16, communicating with casing 2 at a point in alinement with groove or channel 14 and projecting through and into tub 1 to direct the water therein.

The operation of my improvements is as follows: The groove or channel 15 is sufficiently wide to extend from opening 11 to opening 12 in casing 2, as shown in Fig. 3, and permit both hot and cold water to enter the channel, flow into channel 14, and escape together through the nozzle. By turning the valve the relative sizes of these openings can be varied to govern the proportion of hot and cold water permitted to escape and by turning the valve to the right opening 11 can be entirely closed to admit only cold water, while a turn to the left will shut off the cold water and admit only hot water, and a further turn in either direction will close both openings, as will be readily understood.

It will be seen that with my improvements above described the spring 13 holds the valve water-tight, and the peripheral groove or channel 14 directs the discharge of the water, not permitting it to escape past the valve, and no stuffing-box is necessary in the cover; but I might dispense with groove or channel 14 and continue the groove or channel 15 throughout the length of the valve, as shown in Fig. 4, when the water will flow past the valve and escape through the nozzle which communicates with the casing above the valve. With this form of my invention it would of course be necessary to provide a stuffing-box in the cap or cover; but I would also employ the spring 13 to hold the valve in working position and prevent leakage.

A great many other changes might be made in the general form and arrangement of the parts described without departing from my invention, and hence I do not limit myself to the precise construction set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A cock comprising a conical casing provided with inlets for hot and cold water, and a partition located between said inlets and serving as part of a valve-seat, in combination with a conical valve fitting said casing and provided on one of its sides with a single vertical channel having a width greater than that of the inner end of said partition and adapted to communicate with either one of said inlet-openings or with both of them simultaneously, and to be adjusted out of communication with either or both, said channel being adapted to discharge the water at its upper end.

2. A cock, comprising a conical casing having inlets for hot and cold water, a conical valve in said casing having a channel in one side to communicate with one, both, or neither of said inlets according to its position, a peripheral channel around said valve with which the first-mentioned channel communicates, and a spout or nozzle communicating with the casing into which the peripheral channel directs the water.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HENRY M. WEAVER.

Witnesses:

JAS. J. MAGUIRE,
N. B. BIGELOW.