

No. 619,041.

Patented Feb. 7, 1899.

E. M. HEWSON.  
BUSHING FOR BARREL TAPS.

(Application filed Feb. 26, 1898.)

(No Model.)

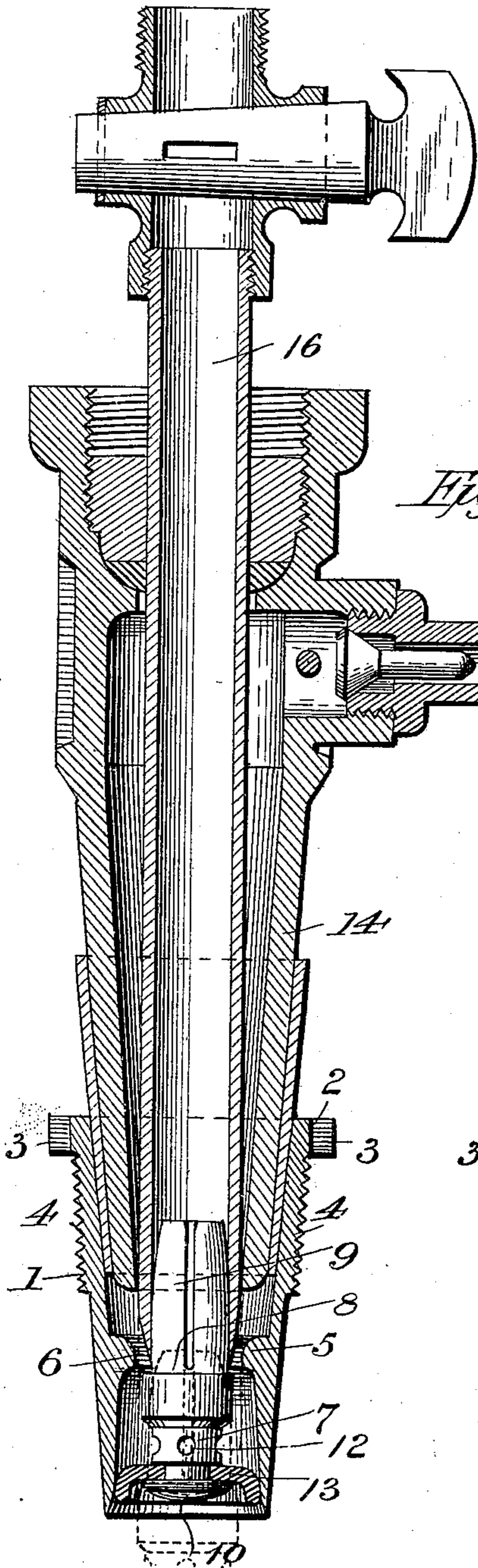


Fig. 1.

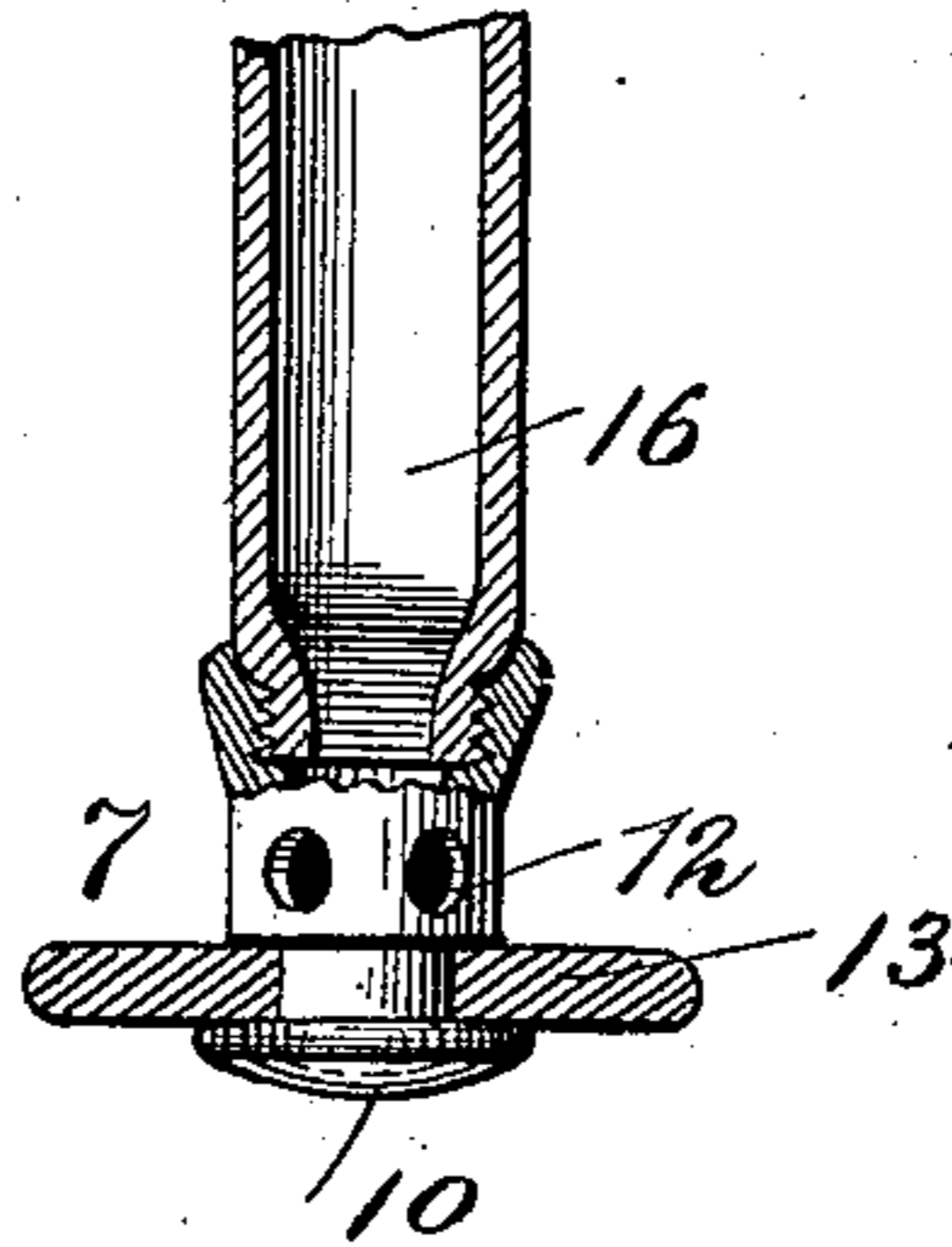


Fig. 5.

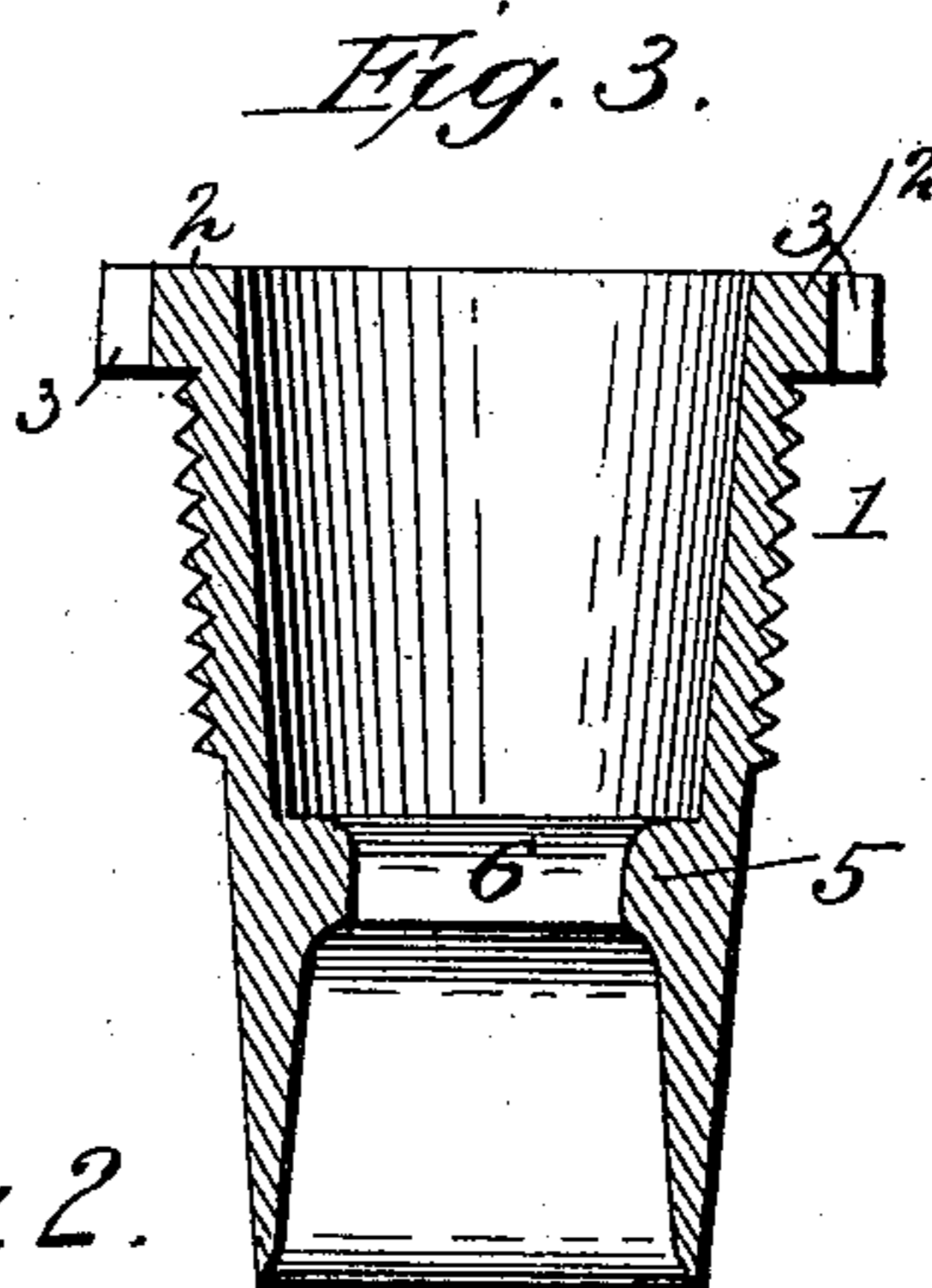


Fig. 3.

Fig. 2.

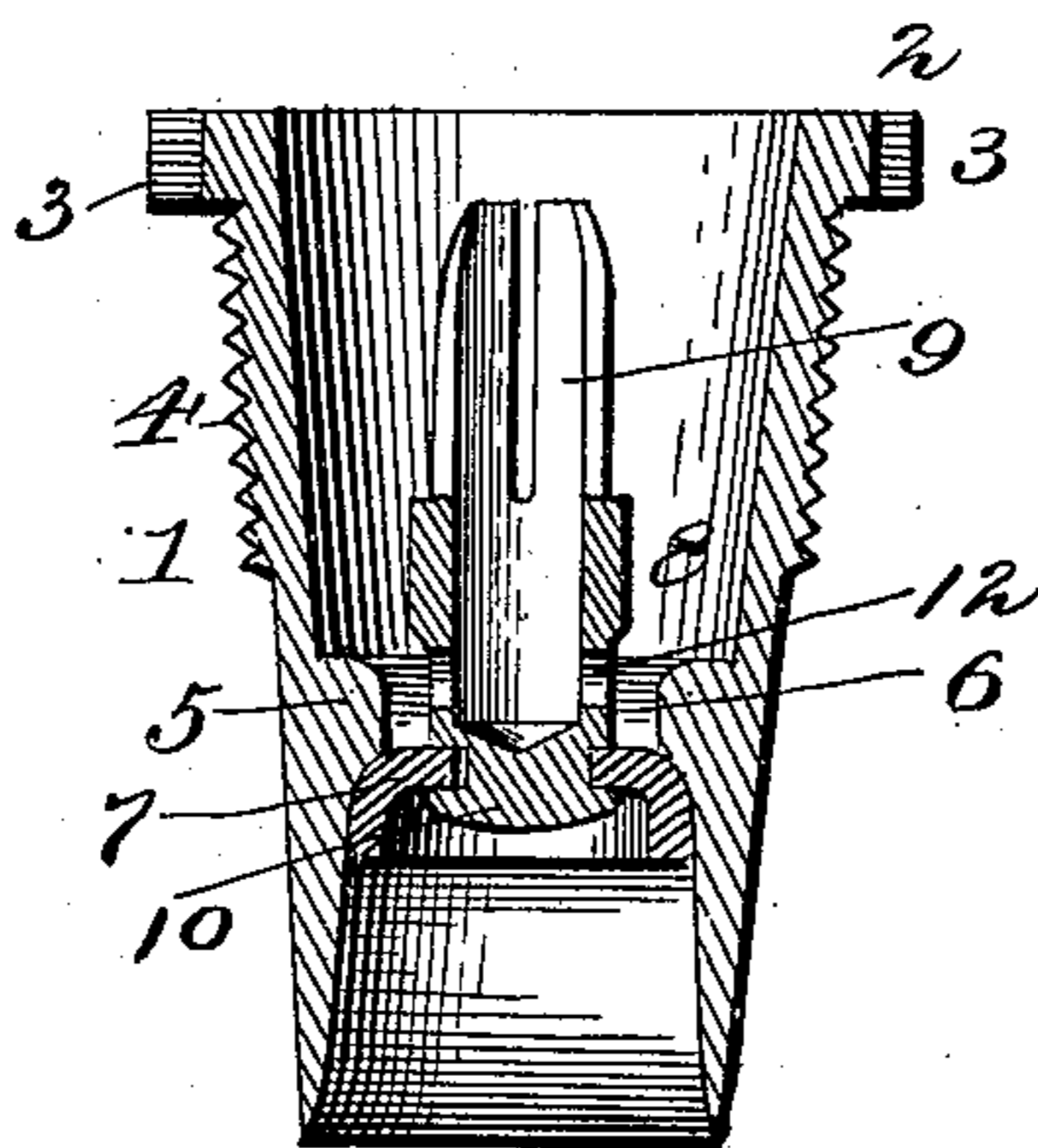
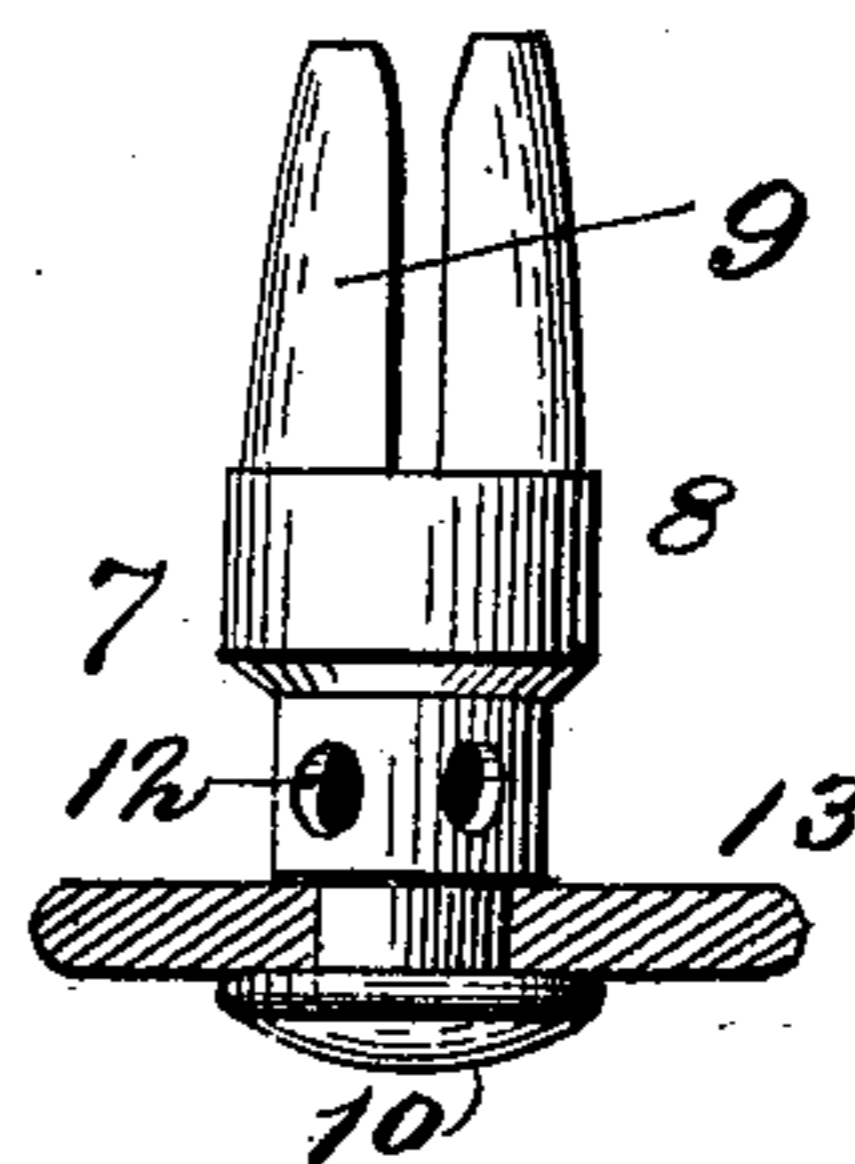


Fig. 4.



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# UNITED STATES PATENT OFFICE.

EDWARD M. HEWSON, OF STILLWATER, NEW YORK, ASSIGNOR OF ONE-THIRD TO WILLIAM BOLAN, JR., OF SAME PLACE.

## BUSHING FOR BARREL-TAPS.

SPECIFICATION forming part of Letters Patent No. 619,041, dated February 7, 1899.

Application filed February 26, 1898. Serial No. 671,804. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD M. HEWSON, a citizen of the United States, and a resident of Stillwater, in the county of Saratoga and State of New York, have invented certain new and useful Improvements in Metallic Bushings; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved metallic bushing for the outlet-openings of casks, kegs, barrels, or other receptacles for containing fermented liquids, which bushings are adapted to receive the inner end of a drive-faucet provided with a movable supply-pipe which engages with and opens a valve in said bushing to allow the contents of the receptacle to be withdrawn.

The invention consists, essentially, in a screw-threaded metallic bushing adapted to be screwed into the outlet-opening of a keg or other receptacle, having a tapering bore at the outer end and intermediate its ends formed with an annular shoulder forming a valve-seat, and a closing-valve seated against said flange, adapted to be opened when the supply-pipe of a faucet is engaged therewith and pushed inward, as hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of a bushing constructed in accordance with my invention, showing a faucet with a movable supply-pipe engaged therewith. Fig. 2 is a similar view, the faucet being removed. Fig. 3 is a similar view, the valve being removed. Fig. 4 is an elevation of the valve. Fig. 5 is an elevation of a modified construction of valve, also showing the end of the supply-pipe to engage therewith.

In the said drawings, the reference-numeral 1 designates a tapering bushing provided at the outer end with a flange 2, formed with diametric slots 3 to receive a suitable instrument by which it may be turned.

The bushing is formed with exterior screw-

threads 4 at the outer end, and its interior is tapered to receive the end of a drive-faucet. Near the inner end the bushing is formed with an interior annular flange 5 and a cylindrical opening 6, and the inner end is contracted, forming an approximately conical recess or opening at this end.

The numeral 7 designates a valve comprising the tubular portion 8, split at the inner end, forming a number of spring-arms 9. The opposite end of said valve is formed with a circular head 10, and intermediate said head and the spring-arms the tube is reduced and formed into a number of openings 12, communicating with the interior thereof.

The numeral 13 designates a disk, of rubber or other flexible elastic material, which is held in a peripheral groove in the tube just in rear of the head 10.

The numeral 14 designates a drive-faucet having a tapering end adapted to fit in the tapering bore of the bushing and is provided with an air-vent 15 and a movable supply-pipe 16. This faucet is of the ordinary construction, such as is in common use, and a detailed description thereof is not necessary, as it forms no part of the present invention.

In operation the bushing is screwed into the outlet-opening of a keg or other receptacle, and the split end of the valve is inserted in the end of a pipe similar to the supply-pipe in the faucet, and said valve is then pushed through the opening formed by the annular flange, the elastic disk in the valve giving for such purpose. The pipe is then pulled outward, when the disk will be brought up against the flange, which forms a seat therefor. The pipe is now withdrawn and the keg is ready to be filled, when the pressure in the keg will force the valve disk and head firmly against the seat, forming a perfectly tight joint.

To tap the keg, the faucet is driven into the bushing and the supply-pipe inserted therein and pushed inward, when it will engage with the split end of the tube. The tube will also be pushed in, uncovering the holes therein and allowing the contents to escape therethrough and into the supply-pipe, which is provided with a turn-cock or plug, as seen in Fig. 1.

The supply-pipe may be withdrawn at any time without wasting any of the contents of the receptacle, as in withdrawing the same the valve will be closed. The spring-arms 5 of the tube engage with the supply-pipe by frictional contact only, so that when the valve is closed the supply-pipe will be disengaged and may be removed from the faucet.

In the modification shown in Fig. 5 the inner end of the tube instead of being split is 10 formed with screw-threads, with which engage corresponding threads on the inner end of the supply-pipe. The operation, however, is substantially the same, as the valve is opened 15 and closed by pushing in and pulling out the supply-pipe.

Having thus fully described my invention, what I claim is—

1. The combination with the screw-thread- 20 ed tapering bushing provided near its inner end with an interior annular flange forming a valve-seat, of the tube passing through said flange having a number of spring-arms at the

inner end, a head at the opposite end and a reduced portion with a number of peripheral 25 holes and the elastic disk of a larger diameter than the opening in said flange, overlapping the latter and forming a valve; substantially as described.

2. The combination with a bushing formed 30 with an interior annular flange forming a valve-seat, and its inner end slightly expanded or made bell-shaped, of a valve provided with an elastic disk adapted to be passed 35 through said flange from the outside and then drawn to its seat and said disk being of a larger diameter than the opening in the flange, so as to overlap the same, and form a valve therefor; substantially as described.

In testimony that I claim the foregoing as 40 my own I have hereunto affixed my signature in presence of two witnesses.

EDWARD M. HEWSON.

Witnesses:

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