

C. K. Bradford,

Faucet,

No 23,658,

Patented Apr. 19, 1859.

Fig: 1

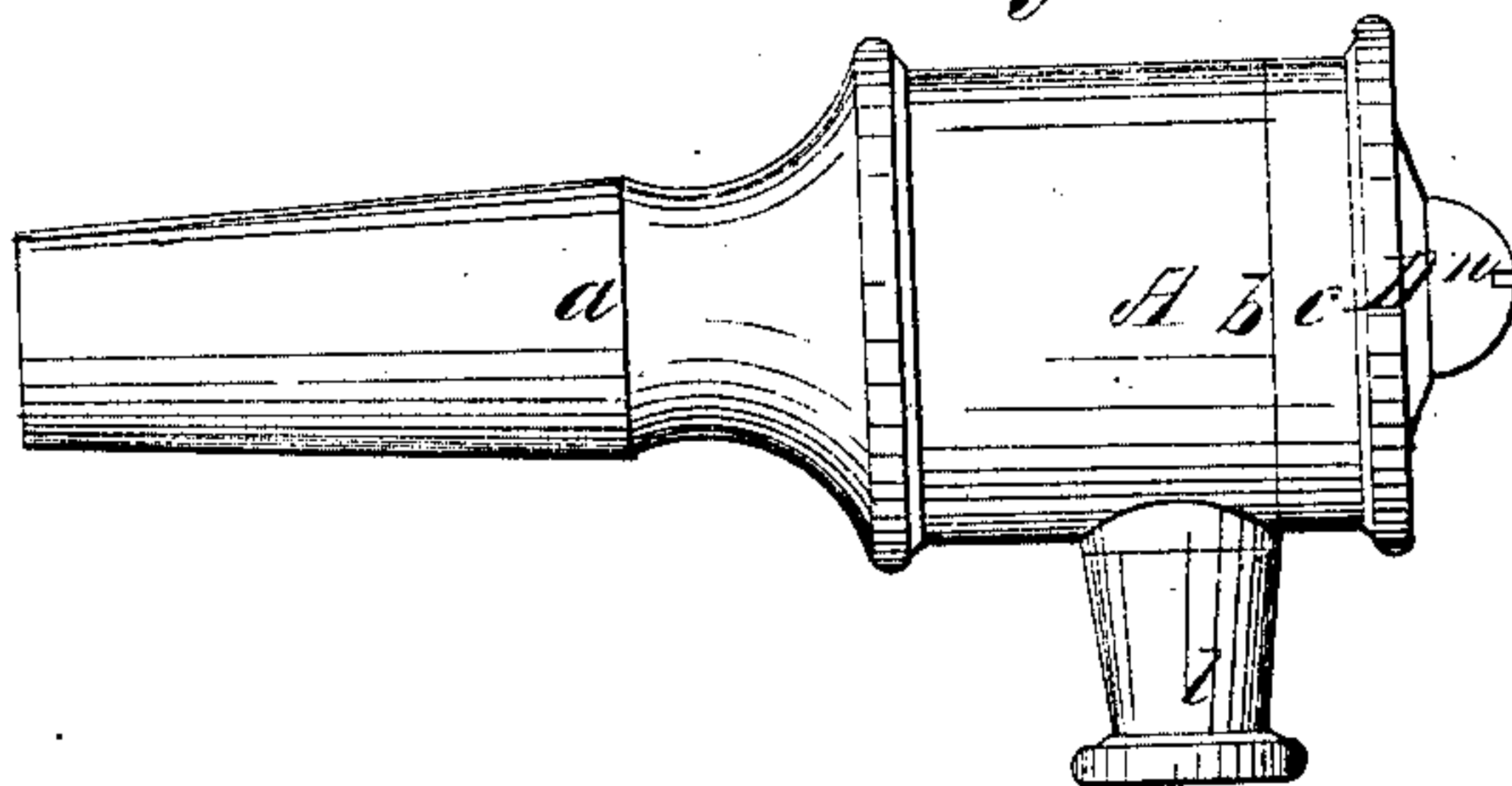


Fig: 2.

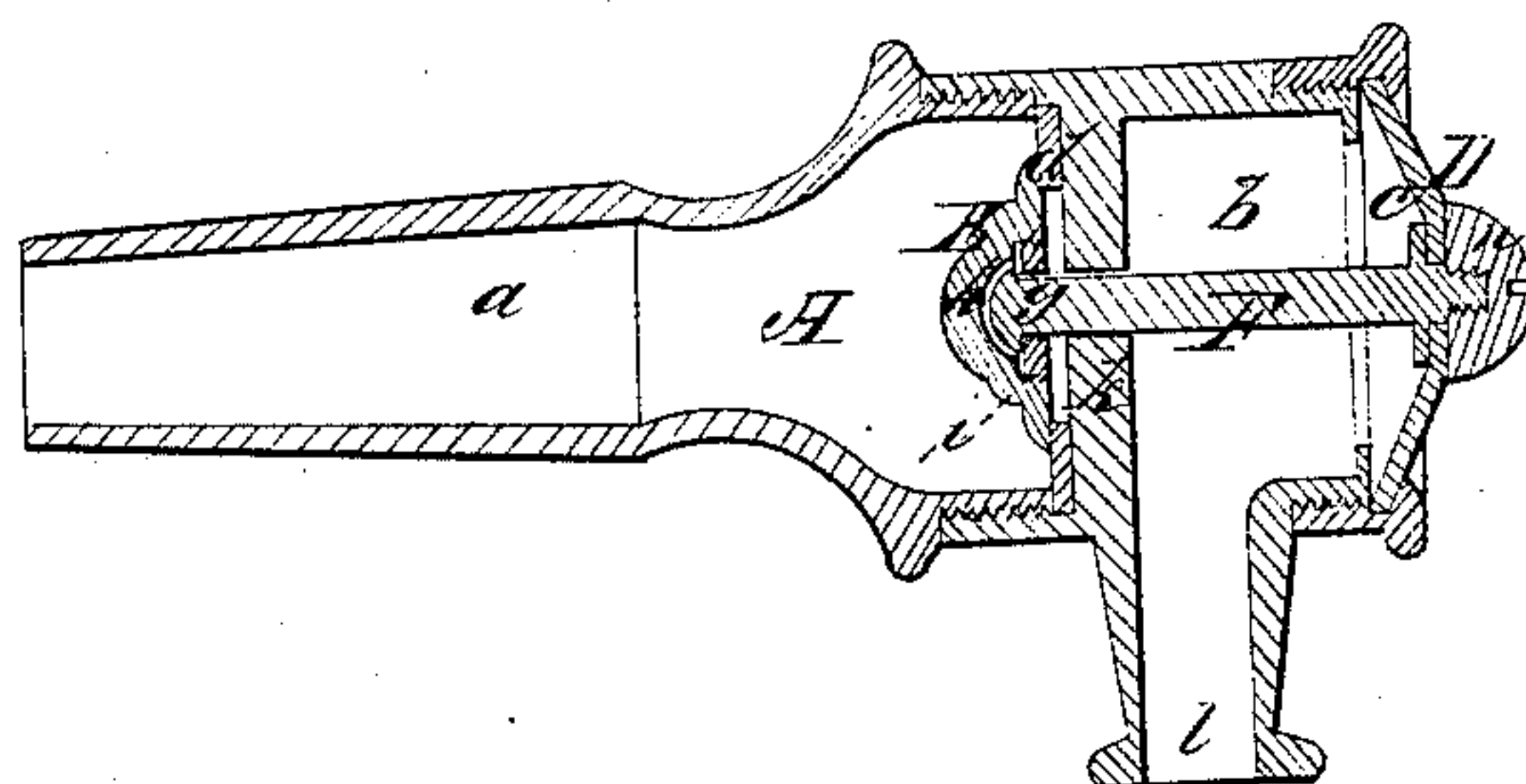
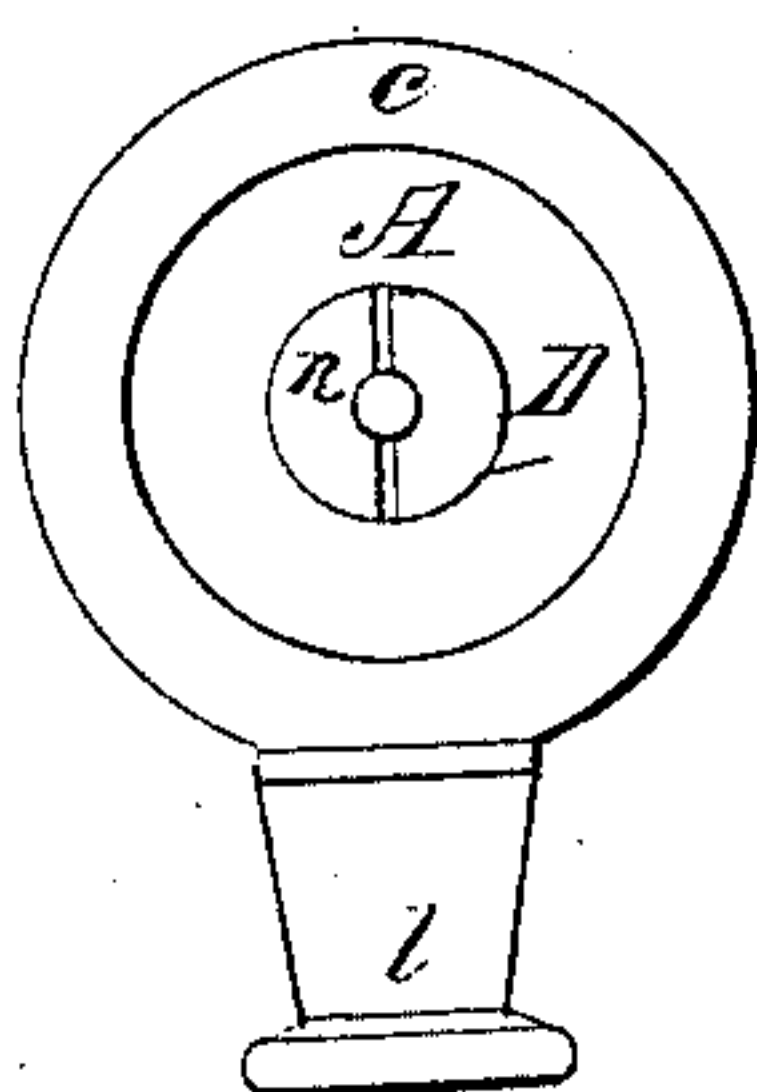


Fig: 3



Witnesses:

*Laurence Lyons,
P. O. Code f*

Inventor:

Charles K Bradford.

UNITED STATES PATENT OFFICE.

CHARLES K. BRADFORD, OF LYNN, MASSACHUSETTS.

FAUCET.

Specification of Letters Patent No. 23,658, dated April 19, 1859.

To all whom it may concern:

Be it known that I, CHARLES K. BRADFORD, of Lynn, in the county of Essex and State of Massachusetts, have invented an Improvement in Liquor-Faucets; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, of which—

Figure 1, denotes an external view. Fig. 2, a longitudinal section, and Fig. 3, a front end view of a faucet constructed in accordance with my invention; the nature of which, consists:

First. In a peculiar application of the valve to its stem in order that the valve under pressure may accommodate itself to its seat without being controlled therein by the stem.

Second. In the mode of connecting the valve stem with the case, viz, by an elastic diaphragm serving not only as a spring to aid in retracting the valve but as a head to the case and to dispense with any stuffing box for the stem of the valve to slide through, the great objection to a stuffing box, being its liability to leak or allow a liquid to pass through it, and either fall on the hand of a person or corrode the stem and box.

In the drawings, A, represents the body or case of the faucet formed of three principal parts, *a*, *b*, *c*, the portion, *a*, being that generally introduced into the head of a cask or barrel when the faucet is used therein. The part, *a*, screws into the part, *b*, and against the leather annulus, *d*, constituting the seat of a valve, E, whose stem, F, extends axially through the case as shown in the drawings. The portion, *c*, screws upon the part, *b*, and against an elastic disk or diaphragm, D, whereby a closed joint around the edges of the diaphragm is attained. The front of the part, *c*, is open to admit of the movement of the valve stem which passes through the central part of the diaphragm and is attached thereto by a water tight connection. Furthermore, the rear end of the valve stem is formed with a head, *g*, to enter a chamber, *h*, constructed in the valve as shown in Fig. 2.

A screw nut or annulus, *i*, encircles the valve stem and screws into the chamber of the valve, such chamber where it contains the head of the valve being formed somewhat larger than the said head in order that the valve may rock a little on the head in any direction and accommodate itself closely to its seat without such interference from the valve stem as would tend to produce leakage between the valve and its seat, such valve stem being supported at its rear part by a cross-bar, *k*, through which it extends and can slide.

The part, *b*, of the case is furnished with a discharging pipe or nose, *l*. When the faucet is in use, the pressure of the liquid against the valve serves to close such valve upon its seat, but when the valve stem is pressed backward by the hand of a person applied to the button or enlargement, *n*, of its outer end the valve will be moved off its seat so as to permit the fluid to flow through and out of the faucet, the valve closing upon the seat the instant that the hand of the person may be withdrawn from its stem.

Having thus fully described my said improvement in faucets, and particularly ascertained the manner in which the same is or may be constructed, I shall state my claim as follows:

What I claim as my invention and desire to secure by Letters Patent is—

The faucet constructed as described, to be operated by applying pressure directly to the head of the case, said case, for this purpose, being provided with an outside elastic diaphragm, forming the head thereto, and combined with a valve rod arranged in relation to the case internally so that the ends of said rod, terminate respectively at, and are secured to the valve and diaphragm as set forth.

In testimony whereof, I have hereunto set my signature.

CHARLES K. BRADFORD.

Witnesses:

R. H. EDDY,
F. P. HALE, Jr.