

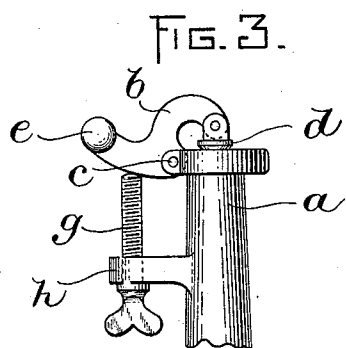
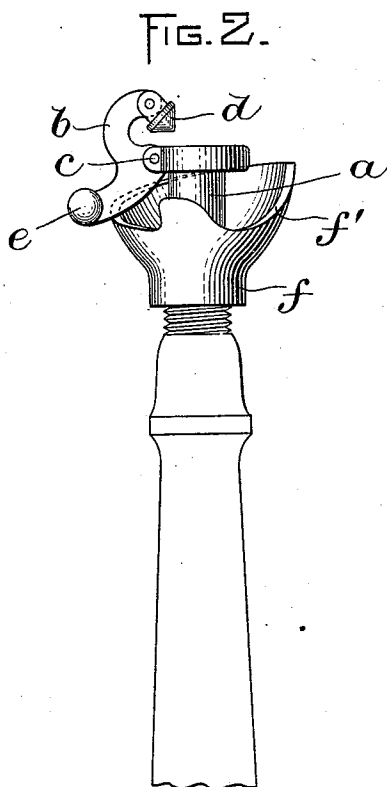
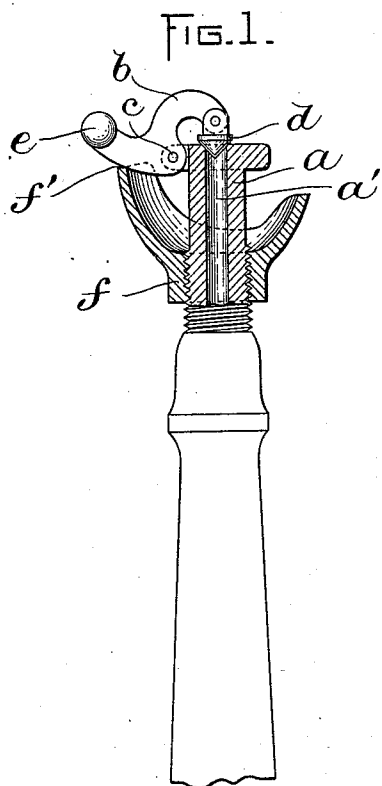
(No Model.)

J. H. MELAVIN.

OUTLET CLOSING DEVICE FOR HOSE NOZZLES.

No. 565,290.

Patented Aug. 4, 1896.



WITNESSES:

E. Batchelder.
A. S. Hanson.

INVENTOR:

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UNITED STATES PATENT OFFICE.

JOHN H. MELAVIN, OF CAMBRIDGE, MASSACHUSETTS.

OUTLET-CLOSING DEVICE FOR HOSE-NOZZLES.

SPECIFICATION forming part of Letters Patent No. 565,290, dated August 4, 1896.

Application filed October 8, 1895. Serial No. 564,982. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. MELAVIN, of Cambridge, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Outlet-Closing Devices for Hose-Nozzles, &c., of which the following is a specification.

This invention relates to means for closing and opening outlets of hose-nozzles, beer-bottles, &c.; and it has for its object to provide a simple and durable device, free from liability of leakage and requiring no packing or close fitting, whereby an outlet may be tightly closed and readily opened.

The invention consists in the novel features of construction and relative arrangement of parts hereinafter fully described in the specification, clearly illustrated in the drawings, and particularly pointed out in the claims.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a sectional view of a hose-nozzle provided with a closing device embodying my invention, the valve being closed. Fig. 2 represents a side view of the same, the valve being opened. Fig. 3 represents a modification.

The same letters of reference indicate the same parts in all the figures.

In the drawings, *a* represents a neck having a discharge-orifice *a'*, said neck being here shown as a part of a hose-nozzle.

b represents a lever pivoted at *c* to the nozzle. To one end of the lever *b* is connected a valve *d*, formed to close the orifice *a'*. The other end of the lever projects outwardly from the nozzle, as shown.

f represents a collar which is rotatively mounted on the neck *a* and is preferably engaged therewith by means of screw-threads formed on the neck and in the collar, the said engagement being sufficiently frictional to hold the collar at any position to which it may be turned and prevent it from turning loosely on the neck. The collar has a cam-shaped edge *f'*, against which the outer portion of the lever *b* bears, said edge being curved or inclined, as shown, so that by rotating the collar the portion of the lever bearing thereon will be raised or depressed, as the case may be.

When the collar is in the position shown in Fig. 1, it holds the lever in position to close the valve, and when the collar is in the position shown in Fig. 2 it permits the valve to open. The collar may be moved sufficiently to only partially open the valve, causing a narrow annular opening between the valve and its seat, so that the liquid will be scattered or sprayed.

It will be seen that the collar *f*, with its cam-shaped curved edge, constitutes an adjustable stop adapted to hold the valve-controlling lever in different positions. The lever and the adjustable stop are both supported on external portions of the neck, so that no care is necessary to prevent leakage excepting between the valve and its seat. Hence the cost of making the device is comparatively small.

The valve *d* is preferably made of or surfaced with rubber or other suitably-yielding material.

I do not limit myself to the screw-thread connection between the collar *f* and the nozzle or neck *a*, as the collar may be fitted to turn upon the neck between suitable stops.

Fig. 3 shows a modification in which the adjustable stop is a screw *g*, working in a tapped orifice in an arm *h* on the nozzle *a*, the screw being arranged to press against the outer arm of the lever *b* and force the valve to its closed position. When the screw is retracted, the valve is released.

Having thus explained the nature of my invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, what I claim, and desire to secure by Letters Patent, is—

1. A nozzle or neck having a discharging-orifice; a lever pivotally connected with the nozzle, the inner end of the lever being formed to project over the mouth of the nozzle, while its outer end extends outwardly from the nozzle; a valve secured to the inner end of the lever and adapted to entirely close the nozzle; and a stop adjustably connected with the nozzle, said stop being movable to close the valve through the lever and to permit the removal of the valve from the path of a stream issuing from the nozzle.

2. A nozzle or neck having a discharging-orifice, a lever pivotally connected with the nozzle, a valve supported by the lever and adapted to open and close the orifice of the
5 nozzle, and a collar rotatively mounted on the nozzle and provided with a cam-shaped edge which bears against the lever, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 30th day of August, A. D. 1895.

JOHN H. MELAVIN.

Witnesses:

C. F. BROWN,
A. D. HARRISON.