G. A. VIS.

VALVE.

APPLICATION FILED MAY 24, 1919.

1,344,364. **Patented June 22, 1920.**

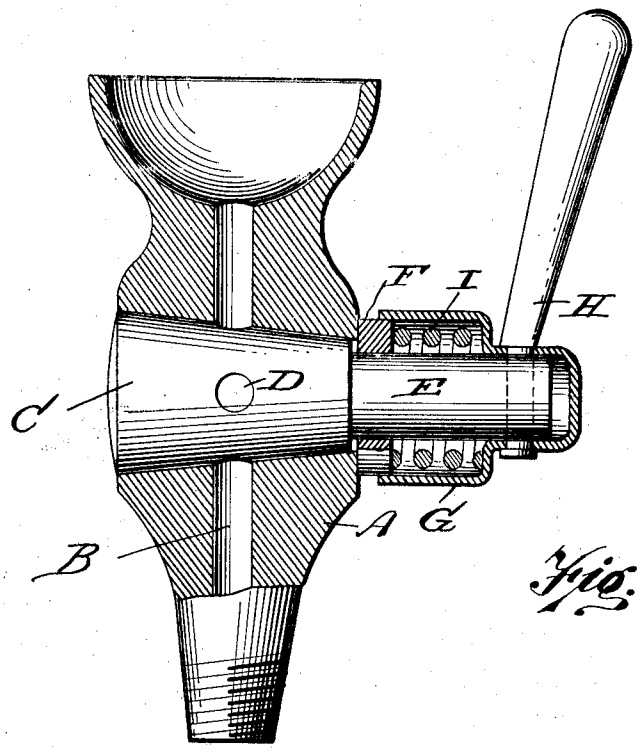
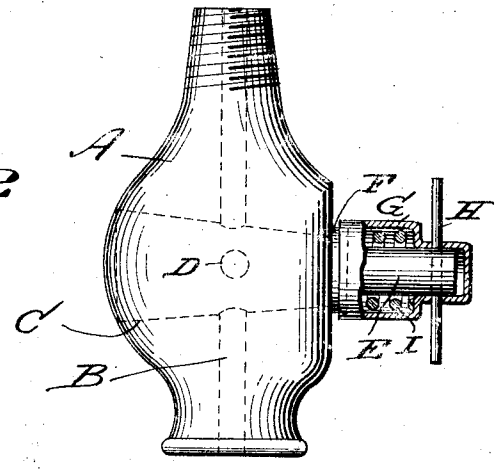


Fig. 1

Fig. 2



Witness
A. J. Steuer

George A. Vis Inventor

By S. B. Thomas Attorney

UNITED STATES PATENT OFFICE.

GEORGE A. VIS, OF DETROIT, MICHIGAN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO BROWN-McLAREN MANUFACTURING CO., OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

VALVE.

1,344,364. Specification of Letters Patent. **Patented June 22, 1920.**

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To all whom it may concern:

Be it known that I, GEORGE A. VIS, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Valves, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to valves for priming cups, pet-cocks and the like, as shown in the accompanying drawings and more particularly described in the following specification and claims.

One object of the present invention is to reduce the manufacturing cost and at the same time produce a more simple and effective device.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes may be made in the precise embodiment herein shown without departing from the spirit of the invention.

In the accompanying drawings forming part of this specification:—

Figure 1 is a vertical cross-sectional view of the priming cup embodying my invention.

Fig. 2 is a side elevation of a pet cock with parts in section showing the invention applied thereto.

Referring now to the letters of reference placed upon the drawings:—

A, denotes the body portion of priming cup, pet-cock or the like, provided with a longitudinal passage B, controlled by a tapering valve C;—in turn formed with the usual transverse port D.

E, is a stem projecting from the contracted end of the valve and integral therewith, on which is sleeved a washer F, bearing against the outer wall of the valve body.

G, indicates a cap snugly fitted to the outer end of the valve stem, having an enlarged annular portion overlapping the edge of the washer.

H, indicates a handle for manually rotating the valve, extending through the cap and stem, thereby serving to secure these parts together as a unit.

I, designates a spiral spring mounted upon the valve stem, within the enlarged portion of the cap;—one end of the spring bearing against the wall of the cap and the other end of the spring bearing against the washer, whereby the valve may be maintained snugly incased within the tapering socket of its body portion.

It will now be seen that by mounting the operating handle on the stem of the valve which supports the spring and its inclosing cap, that the stock usually provided at the opposite end of the valve to receive the handle may be eliminated,—while the valve handle serves the dual purpose of operating the valve, and to secure the spring inclosing cap to its stem.

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

1. In a device of the character described, a body portion having a tapering socket to receive a valve, a tapering valve fitted to said socket having a stem projecting from its contracted end to receive a spring, a spring sleeved upon the valve stem adapted to maintain the valve snugly incased in the tapering socket of the body portion, a cap fitted to the end of the stem, having an enlarged annular portion overlapping the spring and forming a shoulder against which the outer end of said spring is adapted to bear, the wall of said cap beyond said shoulder being provided with a slot, an operating handle extending through said slot and said valve stem to permit operation of said valve, said handle also serving as means for maintaining said cap in position and causing said spring to exert pressure on said valve.

2. In a device of the character described, a body portion having a tapering socket to receive a valve, a tapering valve fitted to said socket, having only one stem which projects from the contracted end of the valve and is integral therewith, a spiral spring sleeved upon the stem adapted to maintain the valve snugly fitted within the socket of the body portion, a cap fitted to the end of the valve stem, having an enlarged annular portion adapted to receive the spring and forming a shoulder against which the outer end of said spring is adapted

to bear, the wall of said cap beyond said shoulder being provided with a slot, an operating handle extending through said slot and said valve stem to permit operation of said valve, said handle also serving as means for maintaining said cap in position and causing said spring to exert pressure on said valve.

3. In a device of the character described, a body portion having a tapering socket to receive a valve, a tapering valve fitted to said socket, having a stem projecting from its contracted end, a washer sleeved on the stem and located contiguous to the wall of the body portion, a cap fitted to the end of the valve stem, having an enlarged annular portion overlapping the edge of the washer and adapted to house a spring, a spiral spring sleeved on the valve stem within the enlarged annular portion of the cap, having one end bearing upon the washer and the other end bearing against the wall of the cap, whereby the valve may be snugly fitted within the socket of the body portion and forming a shoulder against which the outer end of said spring is adapted to bear, the wall of said cap beyond said shoulder being provided with a slot, an operating handle extending through said slot and said valve stem to permit operation of said valve, said handle also serving as means for maintaining said cap in position and causing said spring to exert pressure on said valve.

In testimony whereof, I sign this specification in the presence of two witnesses.

GEORGE A. VIS.

Witnesses:
EDWIN R. MONNIG,
S. E. THOMAS.