T. WINDLE & J. H. DORST.

AUTOMATIC PLUG FOR BARRELS.

No. 86,196. Patented Jan. 26, 1869.

Fig. 1.

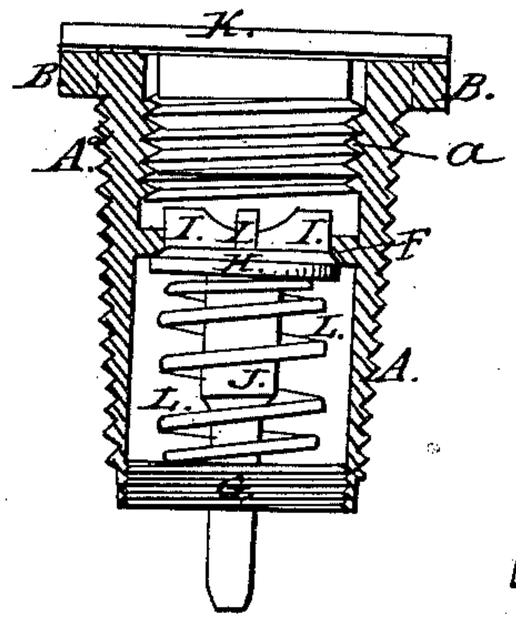


Fig. 4.

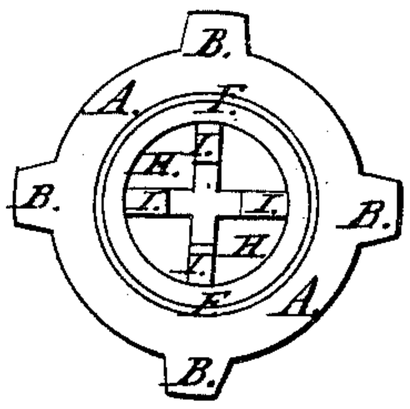


Fig. 5.

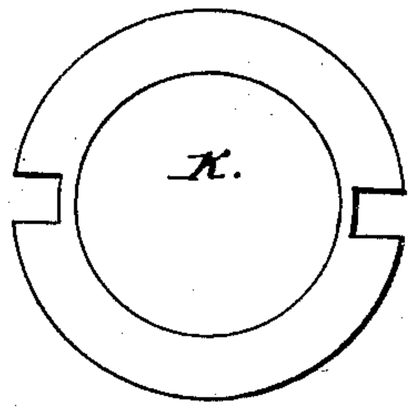


Fig. 2.

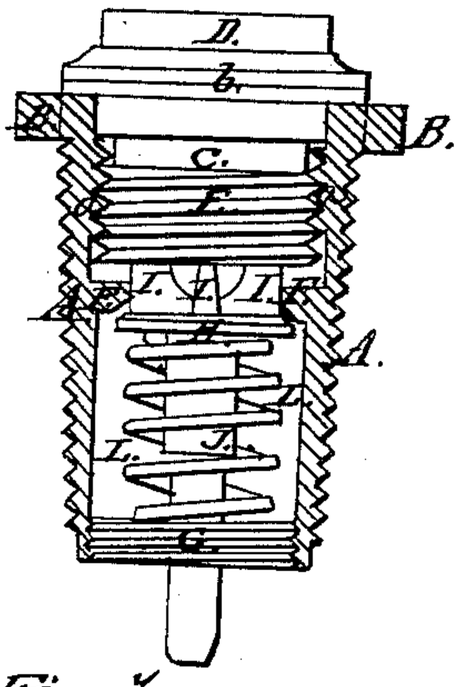
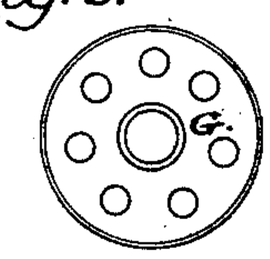


Fig. 3.



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THOMAS WINDLE AND JOHN H. DORST, OF NEW ALBANY, INDIANA.

Letters Patent No. 86,196, *dated January* 26, 1869.

IMPROVEMENT IN AUTOMATIC PLUGS FOR BARRELS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, THOMAS WINDLE and JOHN H. DORST, of New Albany, in the county of Floyd, and in the State of Indiana, have invented certain new and useful Improvements in Automatic Plug; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists in the construction and general arrangement of an "automatic plug" for tapping barrels.

In order to enable others skilled in the art to which our invention appertains, to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figures 1 and 2 are side views in section;

Figure 3, plan view of strainer;

Figure 4, front view of plug; and

Figure 5, a view of the safety-cap.

A represents the main plug, with tapering screw-threads on the outside to screw in a barrel.

The lugs B B, at the front end of the plug, are for the purpose of screwing it in the wood by using a forked wrench.

In the outer end of the plug A is a recess, which receives the blank C of the short section or faucet-end D.

The female screw *a*, just back of the recess mentioned, receives the screw E on the short end D; and just in rear of this female screw *a* is a circular flange or valve-seat, F, against the rear side of which the valve H is placed.

The valve H is inserted from the rear end of the plug A, and is provided at the outer end with wings I I, which project beyond, that is, in front of the valve-seat F, and are guided by the same.

The valve-stem J projects inward through the rear end of the plug, where it is guided by the strainer-plate G, which is screwed into the rear end of the plug.

Around the valve-stem J is a spiral spring L, which rests against the back of the valve H, and is held by the strainer-plate G, thus holding the valve tightly closed.

The short section or faucet-end D operates the plug. It screws into the plug until the blank C begins to enter the recess in the front end thereof; then the end or face of the faucet-end touches the ends of the wings I I, and opens the valve H by forcing it back with one or two turns.

By that time the faucet-end is screwed home to its shoulder, and with its packing *b* makes a tight joint.

When the faucet is not in use, we have a safety-cap, K, which fits the outer end of the plug, and is provided with packing to make a tight joint.

The flange is notched, so as to be easily screwed on.

The packing is placed under the flange of the safety-cap, to prevent leakage should the valve, from any cause, at any time be not properly seated. The cap also protects the inner works from all harm.

The short section D is made to be attached to any faucet, and will be a great saving to those using the plug.

Having thus fully described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The arrangement of the tapering plug A, valve H, wings I I, stem J, strainer G, and spring L, and the safety-cap K, and section or faucet-end D, all constructed as described, and operating substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing, we have hereunto set our hands, this 31st day of August, 1868.

THOMAS WINDLE.
JOHN H. DORST.

Witnesses:
H. N. DEVOL,
CHAS. D. HOWK.