

Sept. 23, 1924.

1,509,537

F. WOERTHER

AUTOMATIC BUNG FOR BARRELS

Filed Sept. 7, 1923

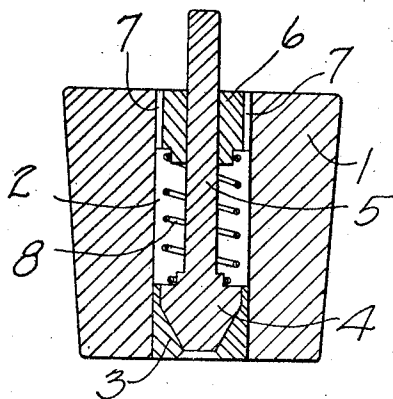


Fig. 1.

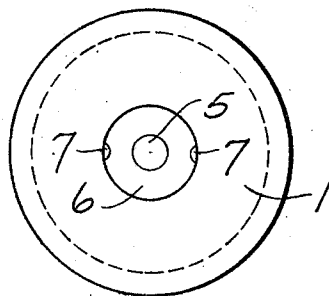


Fig. 3.

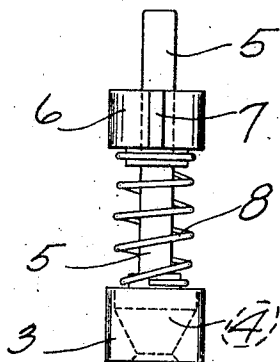


Fig. 2.



Fig. 4.

Fig. 5.

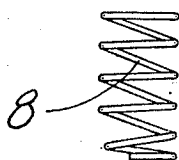
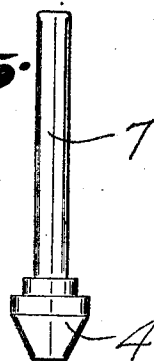


Fig. 7.

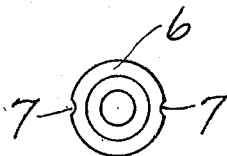


Fig. 6.

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UNITED STATES PATENT OFFICE.

FREDERICK WOERTHER, OF SALEM, OHIO.

AUTOMATIC BUNG FOR BARRELS.

Application filed September 7, 1923. Serial No. 661,389.

To all whom it may concern:

Be it known that FREDERICK WOERTHER, a citizen of the United States, residing at Salem, in the county of Columbiana and State of Ohio, has invented certain new and useful Improvements in Automatic Bungs for Barrels, of which the following is a specification.

This invention is an automatic bung for barrels, and the object is to provide a plug for the bung-hole of a barrel having means embodied therein for automatically permitting excess gases formed within the barrel to escape, thus avoiding danger of the barrel bursting.

In the drawing—

Figure 1 is a longitudinal section;

Figure 2 is a detail of the inner valve mechanism assembled;

Figure 3 is a plan view;

Figure 4 is a detail of the valve seat;

Figure 5 is a detail of the valve and attached stem;

Figure 6 is a detail of the outer sleeve for the valve stem;

Figure 7 is a detail of the valve stem spring.

The invention includes a tapered plug 1, having a central bore 2 formed therethrough. A cupped valve seat 3 is set within the inner end of the bore 2, and a coacting, cone-shaped valve 4 is adapted to seat therein. A valve stem 5 extends from the valve 4 outwardly through the bore 2, and a sleeve 6 is fitted into the outer end of the bore 2 and

loosely over the outer end of the stem 5, the said sleeve having notches 7 cut at the sides thereof to allow for the escape of excess gases from the barrel.

An expansive coil spring 8 is set over the stem 5 and braced between the valve 4 and the sleeve 6, thus normally holding the valve 4 closed against the seat 3.

While I have herein described a certain specific manner and method of constructing and assembling the elements of my invention, it is understood that I may vary from the same in minor details, not departing from the spirit of my invention, so as best to construct a practical device for the purpose intended, as defined in the appended claim.

I claim:

A device of the kind described, comprising a tapered bung having a central bore therethrough; a valve seat fitted into the inner end of the bore and a valve stem sleeve at the outer end, the said valve stem sleeve having notches cut at the sides thereof; a valve seated to the valve seat and having a stem extended loosely out through the valve stem sleeve; and an expansive coil spring set over the valve stem and braced between the said valve and the said sleeve.

In testimony whereof I affix my signature.

FREDERICK WOERTHER.

Witnesses.

GEORGE J. WOERTHER,
HENRY KAISER.