(No Model.)

W. MAHONEY.

SAFETY CAP FOR POWDER KEGS.

No. 456,494. Patented July 21, 1891.

FIG-1-

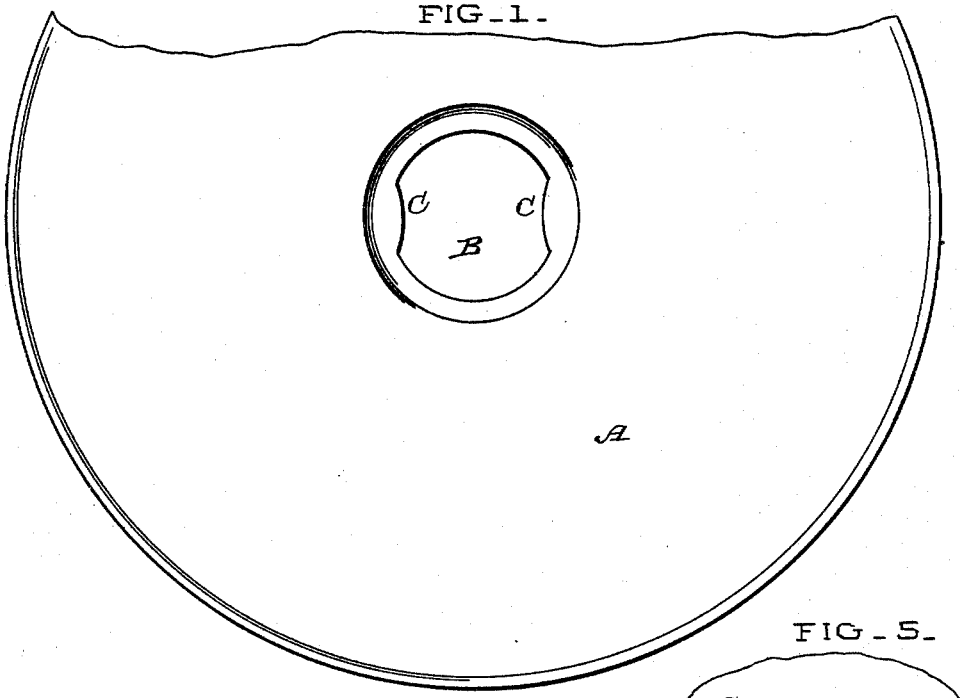


FIG-5-

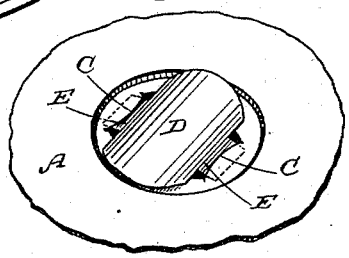


FIG-2-

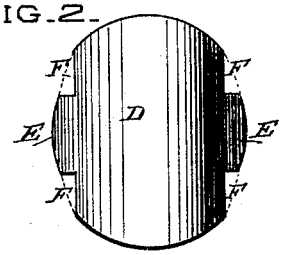


FIG-3-

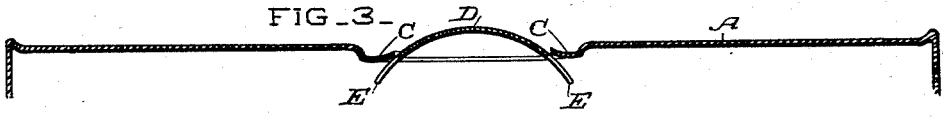
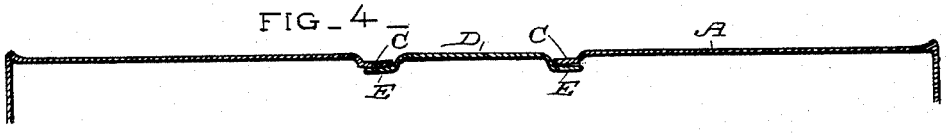


FIG-4-



Witnesses,
J. H. Howse
J. A. Bayless

Inventor,
William Mahoney.
By Dewey & Co.
attys

UNITED STATES PATENT OFFICE.

WILLIAM MAHONEY, OF SANTA CRUZ, CALIFORNIA.

SAFETY-CAP FOR POWDER-KEGS.

SPECIFICATION forming part of Letters Patent No. 456,494, dated July 21, 1891.

Application filed March 25, 1891. Serial No. 386,394. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MAHONEY, a citizen of the United States, (to the extent of having filed my declaration of intention to become such about seven years ago,) residing at Santa Cruz, Santa Cruz county, State of California, have invented an Improvement in Safety-Caps for Powder-Kegs; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to an improved safety-cap for powder-kegs.

It consists of a disk or plate having tongues upon opposite sides, said tongues being adapted to lock into the sides of the opening which the disk is designed to cover.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a view of a portion of the top of a powder-keg, showing the opening through which the powder is introduced and removed. Fig. 2 is a view of the cap in readiness to be introduced into the opening. Fig. 3 is a sectional view taken through the top of the keg and the cap, showing the latter in position and in readiness to be closed and secured in the opening. Fig. 4 shows the cap in place with the opening closed. Fig. 5 is a perspective view showing the cap in place in the opening of the can in readiness to be closed.

A is the top or end of a metallic powder-keg, having an opening B made through it. This opening is circular, with the exception of a short distance upon two opposite sides, where an inwardly-extending portion C occupies a small part of the circumference of the opening, and these two edges are slightly raised above the level of the rest at the opening to allow the lugs of the closing-cap to pass beneath them.

D is the cap which is intended to close this opening. It is stamped out of soft sheet metal, preferably zinc, and has a circumference of larger diameter than the hole, so that if made in the form of a complete disk it would entirely cover the hole and approximately fill the countersunk depression which is made in the top of the keg surrounding the hole. At the sides of this disk, which correspond with the short inwardly-extending portions C of the hole, tongues E are formed by simply cutting out a triangular section upon each side, as shown at F. The plate is then bent into segmental or semi-cylindrical form, as shown in Fig. 2, and the ends of the projecting tongues are introduced beneath the inwardly extending portions C of the sides of the hole. By pressing upon the upwardly-curved portion of the cap after these tongues are thus introduced the cap will be flattened down, the tongues will lie beneath the inwardly-extending portions C, and the corners or angles which have been cut out of the plate on each side allow the plate to be flattened down, so that it entirely covers the opening into the keg, thus forming a securely-locked cap, which can only be removed by again bending it into the semicircular form by means of any suitable tool, which may be introduced beneath the overlapping edges of the cap. The inwardly-extending portions C at each side of the hole, and beneath which the tongues of the cap are locked, are forced slightly upward in stamping out the head and the hole, so that the tongues of the cap will readily pass beneath them, and at the same time allow the cap to lie perfectly flat upon the top of the keg when pressed down to its seat.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A powder-keg having an opening with inwardly-extending portions upon opposite sides, and a disk adapted to cover said opening, having angular portions on its opposite sides, forming tongues adapted to be passed beneath the said inwardly-extending portions and to be secured in position, substantially as herein described.

2. The metallic head or plate having a circular opening, with inwardly-extending portions C upon opposite sides, a circular disk or cap adapted to cover said opening, having angular portions cut out, so as to form tongues which will extend beneath the inwardly-extending portions of the opening, said disk being curved into a semicircular form to allow the tongues to pass beneath the inwardly-extending portions and afterward flatten down, so as to cover the opening, while the tongues pass beneath said portions C, substantially as herein described.

In witness whereof I have hereunto set my hand.

WILLIAM MAHONEY.

Witnesses:

F. W. MAHONEY,

LUCY CARPENTER.