

H. C. ALEXANDER.
SAFETY CAP FOR GUNS.

No. 104,402.

Patented June 21, 1870.

Fig. 1

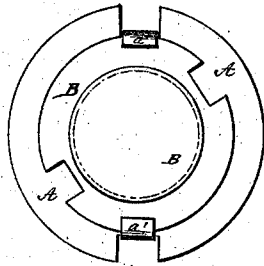


Fig. 2

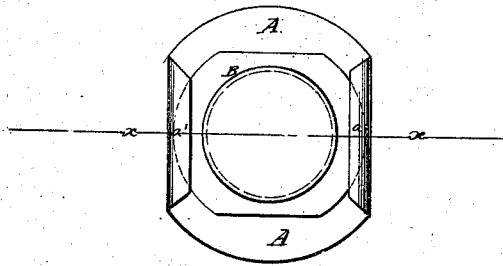
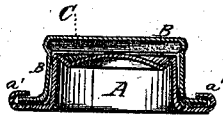


Fig. 3



Witnesses:

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United States Patent Office.

HORACE CLIFTON ALEXANDER, OF NEW YORK, N. Y.

Letters Patent No. 104,402, dated June 21, 1870.

IMPROVEMENT IN SAFETY-CAPS FOR CANS.

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

To all whom it may concern:

Be it known that I, HORACE CLIFTON ALEXANDER, of the city of New York, in the county and State of New York, have invented a new and useful Improvement in Safety-Caps for Cans; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 is a top view of my improved can-cap.

Figure 2 is a top view of a modified form of the same.

Figure 3 is a vertical cross-section of the same, taken through the line *x x*, fig. 2.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved safety-cap for cans, which shall be simple in construction, effective in operation, and convenient in use; and

It consists in the can-cap constructed as hereinafter more fully described.

A is the lower part of the cap, the base flange of which is designed to be securely soldered to the top of the can, directly over the orifice or opening in the said top of the said can.

The part A is made of a disk of metal, in the center of which is spun or struck up, a tubular socket, the sides of which may be made straight or tapering.

a' are the fastenings, which may be formed by slitting the edges of the flange of the base part A, and turning the parts between the slits up, as shown in the drawing, to form the said lips, loops, or catches, or small segments may be cut from the opposite edges of the flange of the base part A, to form a straight edge, and the parts along which the straight edges have been formed may be turned up to form long lips, loops, or catches *a'*, as shown in fig. 2.

The top of the part A is grooved around the edge, as shown in fig. 3, to serve as a guide to the knife when opening the can.

B is the upper part or top of the cup, which is formed by spinning or striking up the central part of a circular disk, to form a tubular socket to fit upon the projecting part of the part A. The diameter of the base flange of the upper part B is such that it may fit into the bends of the lips, loops, or catches *a'* of the part A. The outer edge of the base flange of the part B is notched when the catches *a'* are formed by slitting the base flange of the part A, or trimmed off to a straight edge when the catches *a'* are made long, shown in fig. 2, to allow it to be passed down over the said ears, catches, or fastenings *a'*. By this construction by turning the upper part B partly around, when it has been pressed down to its place upon the part A, the unnotched or untrimmed part of the base flange of the part B will pass into the bends of the catches *a'*, as shown in figs. 1, 2, and 3, and securely fasten the part B to the part A.

A thin disk, C, of cork, rubber, or other suitable material may be inserted in the upper part of the cap or part B, to rest upon the edge of the lower part A to guard against leakage. The upper part of the sides of the top part B may be slightly grooved, as shown in fig. 3, to receive and retain the edge of the disk C, to keep the said disk in place when the part B is detached from the lower part A.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

A fastening device for cans, formed of two sheet-metal disks upset and shaped to form caps, the one fitting over the other, the flanges of the inner being turned over at two points to form lips *a'* and the flange of the outer cut away at corresponding points to permit its entrance under the lips and the interlocking of the two, as shown and described.

The above specification of my invention signed by me this 10th day of February, 1870.

HORACE CLIFTON ALEXANDER.

Witnesses:

GEO. W. MABEE,
JAMES T. GRAHAM.