

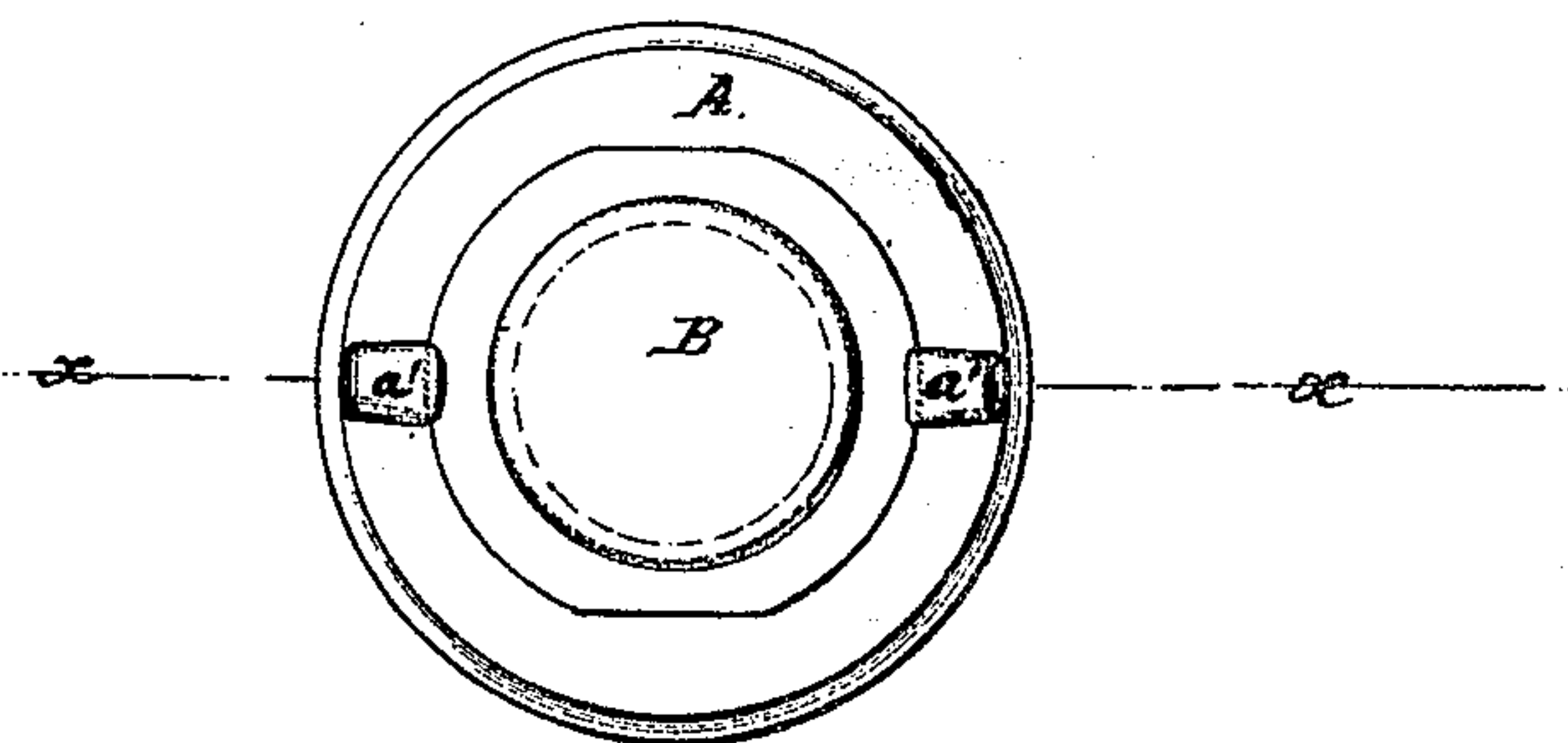
*H.C. Alexander,*

*Safety Cap for Cans.*

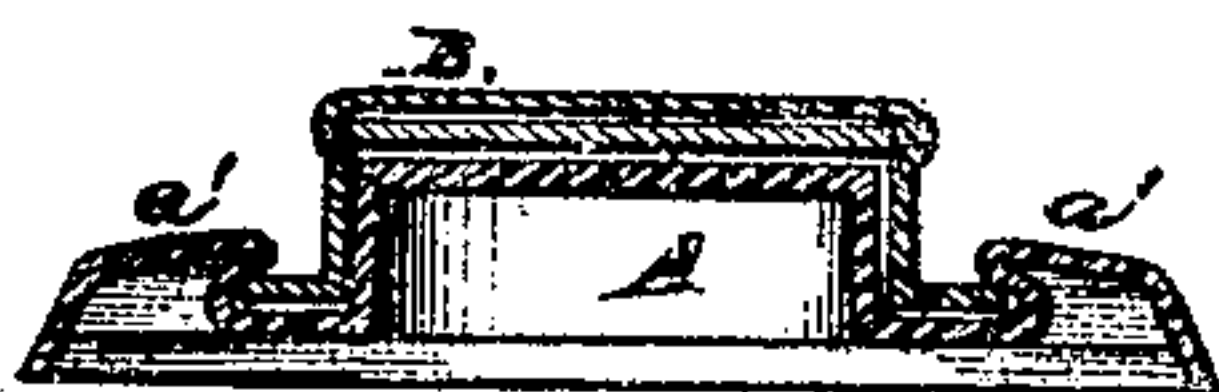
*No. 105,157.*

*Patented July 12, 1870.*

*Fig. 1.*



*Fig. 2.*



**Witnesses:**

*A. W. Almqvist*  
*Geo. H. Mabee*

**Inventor:**

*H. C. Alexander*

PER *[Signature]*  
**Attorneys.**

# United States Patent Office.

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

*Letters Patent No. 105,157 dated July 12, 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 C. 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 cap.

Figure 2 is a detail sectional view of the same, taken through the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to improve the construction of safety-caps for cans, so as to make them neater in appearance and simpler in construction, while being equally effective in use; and

It consists in the construction of the ears or catches by means of which the upper part is secured to the lower part of said cap, 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 through the top of said can.

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

*a'* are the ears, catches, or fastenings, which are formed by striking up small portions of the base flange of the part A at the same time that the central tube or socket is formed. A gauge is then inserted between the projections *a'* and the central socket, and

the said projections are pressed downward and inward, bringing them into such a form as to receive the edges of the base flange of the upper part B.

The edges of the base flange of the upper part B may be trimmed off upon the opposite sides of the central socket, as shown in fig. 1, to enable said flange to pass down between the ears or catches *a'*, or the said edges may be slightly notched to pass over the said catches, or they may be cut slightly inclined or cam-shaped for the same purpose, the part B in either case being secured in place by turning its edges beneath the inner projecting parts of the projections *a'* of the part A of the cap.

When the metal of which the cap is made is very light, the process of forming the projections *a'* may crack or break the metal, so that the volatile part of the oil might escape through it. To guard against the possibility of this, I drop a drop of solder into the cavities in the under side of the base flange of the said part A, formed by striking up the metal to form the catches or ears *a'*.

Having thus described my invention,

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

The ears or catches *a'*, formed by striking up the solid metal of the base flange of the part A of the can-cap, and pressing the projections thus formed downward and inward, substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me this 7th day of June, 1870.

HORACE C. ALEXANDER.

Witnesses:

GEO. W. MABEE,

JAMES T. GRAHAM.