(No Model.)

A. J. WARNER.

KEYHOLE BEARING.

No. 554,807. Patented Feb. 18, 1896.

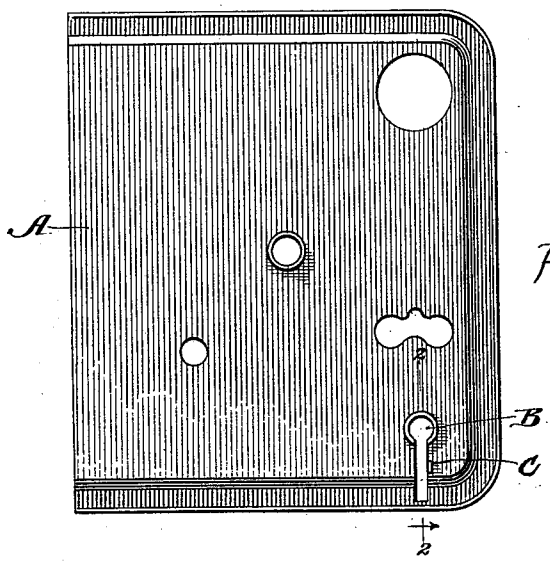

Fig 1.

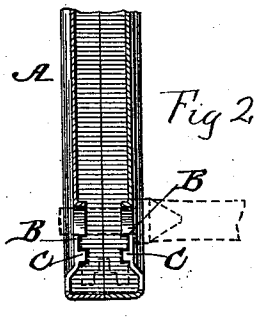

Fig 2.

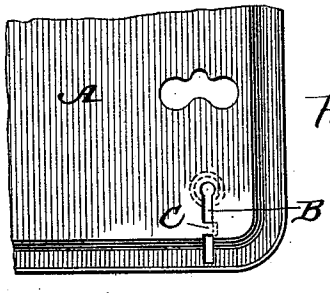

Fig 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ADELBERT J. WARNER, OF CHICAGO, ILLINOIS.

KEYHOLE-BEARING.

SPECIFICATION forming part of Letters Patent No. 554,807, dated February 18, 1896.

Application filed April 3, 1895. Serial No. 544,324. (No model.)

To all whom it may concern:

Be it known that I, ADELBERT J. WARNER, of Chicago, in the county of Cook, State of Illinois, have invented an Improved Keyhole-Bearing and Method of Making the Same, of which the following is a description.

This invention relates to an improved keyhole-bearing in the case and cap of sheet-metal locks.

Objection has been made to sheet-metal cases and caps on account of the small bearing for the key, and to avoid this objection numerous contrivances have been devised, such as separate bearing collars or washers riveted to the case, and in some constructions eyelets have been riveted in the keyhole. All these methods, however, are laborious and expensive, and it is with the view of avoiding these objections that I have devised my improved keyhole-bearing, which consists in drawing the case and cap inward or outward to form the bearing, and also bending in a portion of the metal at the edge of the keyhole-slot to form a ward.

My invention consists also in certain details hereinafter referred to, and pointed out in the claim.

In the drawings hereto annexed, Figure 1 is a view showing the sheet-metal case or cap provided with my improved keyhole bearing and ward. Fig. 2 is a view on the line *z z* of Fig. 1. Fig. 3 is a view illustrating the manner of making the bearing and ward.

In applying my invention I employ a thin sheet-metal steel case and cap A and stamp or punch the keyhole B, such hole being much smaller than the hole when finished, and it will also be noticed that a portion of metal C is left between the upper and lower portions of the slot. This can be arranged at any desired point between the ends of the slot. After the small hole B is punched the metal is drawn in any suitable manner until the hole is the desired size to receive the key. In so drawing the metal a key-bearing is formed, and this bearing also forms a ward, thus answering a double purpose. The portion C is now cut away at one side and pressed inward, as shown, providing a second ward.

It will thus be seen that I provide a key bearing and ward at one operation, and also produce as many additional wards as may be desired, and all integral with the cap or case.

It will thus be seen that I provide a bearing which is simpler and cheaper than those heretofore used, and one which serves a double purpose.

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

As an improved article of manufacture, a sheet-metal lock-case, having one or both faces provided with a keyhole-bearing, integral with the face of the case, said bearing being drawn inward, and the key ward or wards formed integral with the edge of the keyhole-slot, and turned inward, substantially as shown and described.

In testimony whereof I affix my signature in the presence of two witnesses.

ADELBERT J. WARNER.

Witnesses:

CHAS. E. BROCK,

GERTRUDE A. HIGHAM.