No. 664,352. Patented Dec. 18, 1900.

J. GIBBS.

HOLDER.

(Application filed Sept. 7, 1899.)

(No Model.)

Fig. 1.

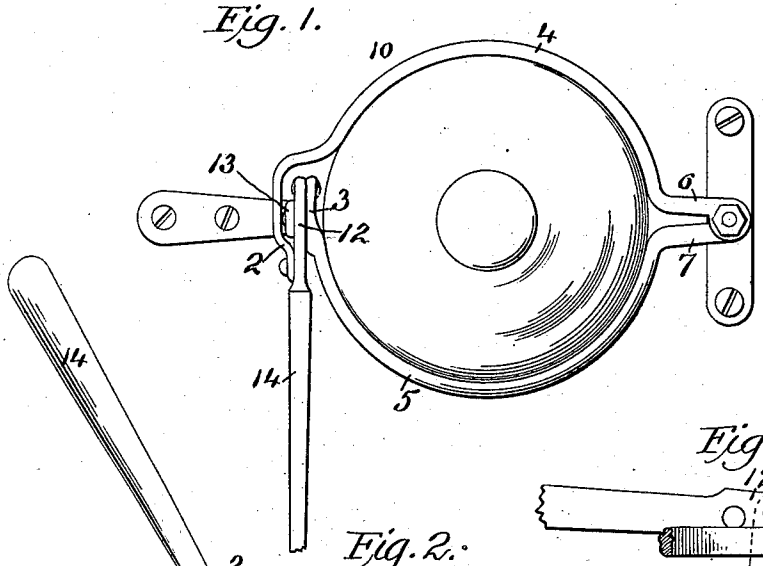


Fig. 3.

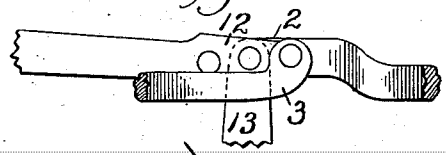


Fig. 2.

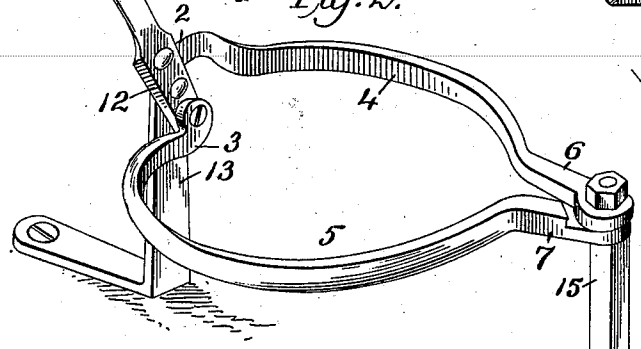


Fig. 4.

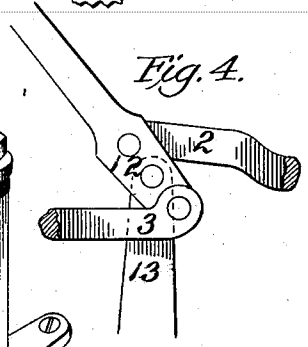
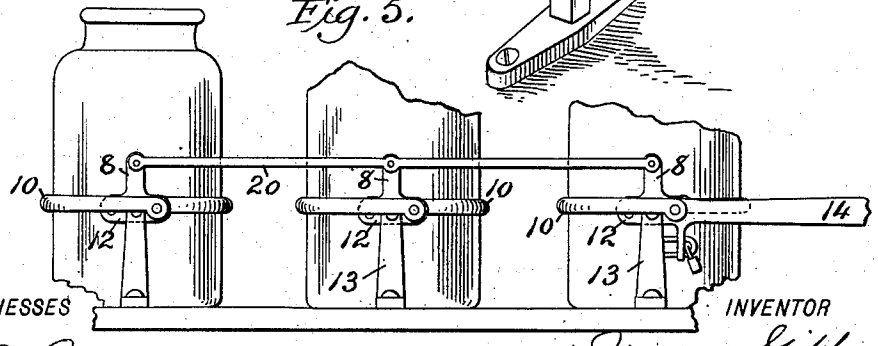


Fig. 5.



WITNESSES

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HOLDER.

SPECIFICATION forming part of Letters Patent No. 664,352, dated December 18, 1900.

Application filed September 7, 1899. Serial No. 729,682. (No model.)

To all whom it may concern:

Be it known that I, JAMES GIBBS, a citizen of the United States, residing at Williamstown, county of Berkshire, and State of Massachusetts, have invented certain new and useful Improvements in Holders, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to holders for cans, bottles or other receptacles, or similar articles; and the object of the invention is, generally, to provide a holder of simple and cheap construction which will be efficient to support and securely hold the article and which may be readily operated for securing or releasing the article.

A full understanding of the invention can best be given by a detailed description of a preferred construction embodying the same, and such a description will now be given in connection with the accompanying drawings, in which—

Figure 1 is a plan view of a preferred form of holder constructed in accordance with the invention, showing a fire-extinguisher held thereby. Fig. 2 is a perspective view of the holder in its open position. Fig. 3 is a detail view of the tightening and securing device, showing the parts in closed position. Fig. 4 is a similar detail view showing the parts in open position. Fig. 5 is a view in elevation of a series of three holders arranged to be operated together for securing and releasing the articles held thereby, the articles held by the holders as shown in this view being milk-bottles.

Referring to the drawings, the holder comprises a strap or split ring 10, having its adjacent ends connected by tightening and securing means which, as shown, consists of a connecting-piece 12, pivotally connected to the ends 2 and 3 of the strap 10, which are formed so that when the parts are in closed position, as shown in Figs. 1 and 3, the ends will extend past each other, and the connecting-piece 12 is pivoted between the points of pivotal connection to the overlapping ends of the strap to a suitable support, as the bracket 13 shown. It will thus be seen that when the connecting-piece is moved from the position shown in Fig. 3 to that shown in Fig. 4 the overlapping ends of the strap will be moved laterally apart to extend or open the ring, as shown in Fig. 2, and that when the connecting-piece is moved back to the position shown in Fig. 3 the ends will be drawn together and the strap caused to close and securely grip any article of the proper size which has been placed therein. It will be seen, further, that by forming the parts so that the connecting-piece may be moved so as to carry the points of pivotal connection with the ends 2 and 3 slightly past the position of parallelism with the plane of the strap, as shown in Fig. 3, then the strap will be securely locked in its contracted or closed position, and the extreme ends of the ends 2 and 3 are preferably formed the one to extend slightly downward and the other slightly upward for the purpose of avoiding friction and interference when the connecting-piece 12 is moved into the locking position shown in Fig. 3 and hereinbefore referred to. Any suitable provision may be made for operating the connecting-piece 12; but for this purpose it is preferably provided with an extension 14, as shown, to form an operating-handle.

The strap 10 is preferably formed, as shown, of two semicircular parts 4 and 5, having short outwardly-extending ends 6 and 7, which are pivotally connected to each other and to a suitable support, as the bracket 15 shown. By connecting the parts 4 and 5 of the strap by means of the outwardly-extending ends 6 and 7 a better opening and closing movement of the strap is secured and provision is made for a slight spring or yielding of the sides when under pressure, thus securing a better grip or holding action. The strap may be of any suitable material and of any suitable form in cross-section; but when formed of two pivotally-connected parts of the preferred form shown it is preferably of metal and of such cross-section as to be substantially rigid. To prevent interference of the outer overlapping end 2 with the connecting-piece 12 and the end of the bracket 13, the end 2 is bowed outward, as shown.

It will be seen that by the construction above described I provide a holder of simple and cheap construction which is easily and

quickly operated and by which the article which is intended to be held thereby will be held securely in place without the possibility of its being freed from the holder by reason of its weight or of any jarring or jolting to which the holder or the article may be subjected. The holder will be found of special value for portable fire-extinguishers, and especially for holding fire-extinguishers on fire-department trucks on account of the security with which the extinguisher is held and the ease with which it may be released from the holder.

It is desirable in some cases to provide for the simultaneous operation of a plurality of holders. For this purpose I provide the connecting-pieces 12 of the holders which are to be operated simultaneously with arms 8, and connect these arms by a connecting-rod 20, so that when one of the connecting-pieces 12 is moved in either direction the connecting-pieces of the others of the series of holders will be correspondingly moved. Any suitable means may be provided for operating the series, as a handle 14 extending from the connecting-piece of one of the end holders, as shown.

It may sometimes be desirable to provide means for securing the holders in closed position by means of a key or combination-lock. A simple means for securing this result is shown in Fig. 5 and will be readily understood from the drawings.

It will be understood that I am not to be limited to the exact construction and arrangement shown, but that the invention includes changes and modifications therein within the claims.

What I claim is—

1. A holder for fire-extinguishers or other articles comprising a strap having overlapping ends, a support, a connecting-piece pivotally connected to said overlapping ends and pivoted to said support between the points of connection to the ends of the strap, and means for operating said connecting-piece for securing and releasing the article, substantially as described.

2. A holder for fire-extinguishers or other articles comprising a strap having overlapping ends 2 and 3, a support, and connecting-piece 12 pivotally connected to the ends 2 and 3 and pivoted to said support between the points of connection to the ends 2 and 3, and having an extension forming an operating-handle 14, substantially as described.

3. A holder for fire-extinguishers or other articles comprising a strap having overlapping ends 2 and 3, a support, and a connecting-piece 12 pivotally connected to the ends 2 and 3 and pivoted to said support between the points of connection to the ends 2 and 3 and adapted to be turned to carry the points of connection with the ends 2 and 3 past center, and means for operating the connecting-piece, substantially as described.

4. A holder for fire-extinguishers or other articles comprising a strap formed of two parts pivotally connected to a support and having their other ends formed to overlap, a second support, a connecting-piece pivotally connected to said overlapping ends and pivoted to said second support between the points of connection to said overlapping ends, and means for operating said connecting-piece for securing and releasing the article, substantially as described.

5. A holder for fire-extinguishers or other articles comprising a strap formed of two semicircular parts having outwardly-extending ends 5 and 6 which are pivotally connected to a support and adapted to permit a slight yielding of the strap under pressure, and tightening and securing means for the other ends of said parts, substantially as described.

6. A holder for fire-extinguishers or other articles comprising a strap formed of two semicircular parts having outwardly-extending pivotally-connected ends and having their other ends formed to overlap, a support, a connecting-piece pivotally connected to said overlapping ends and pivoted to said support between the points of connection to the ends, and means for actuating said connecting-piece for securing and releasing the article, substantially as described.

7. A holder for fire-extinguishers and other articles comprising a strap, a support, a piece pivoted to said support and to one end of the strap whereby the strap is supported and is tightened and loosened for securing and releasing the article, and means for operating said piece for securing and releasing the article, substantially as described.

8. A holder for fire-extinguishers and other articles comprising a strap formed of two parts, one of which has an outwardly-extending end by which said part is pivoted and which is adapted to permit a slight yielding of said part of the strap under pressure, and said parts having their other ends formed to overlap, a connecting-piece pivotally connected to said overlapping ends, and means for operating said connecting-piece for securing and releasing the article, substantially as described.

9. A holder for fire-extinguishers or other articles comprising a plurality of holders each comprising a strap having overlapping ends and a connecting-piece 12 pivotally connected to said overlapping ends and having an arm 8; and a member connecting said arms 8, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JAMES GIBBS.

Witnesses:
A. A. V. BOURKE,
A. L. KENT.