

No. 857,998.

PATENTED JUNE 25, 1907.

M. H. HART.
HOLDER.

APPLICATION FILED JAN. 6, 1908.

2 SHEETS—SHEET 1.

Fig. 1.

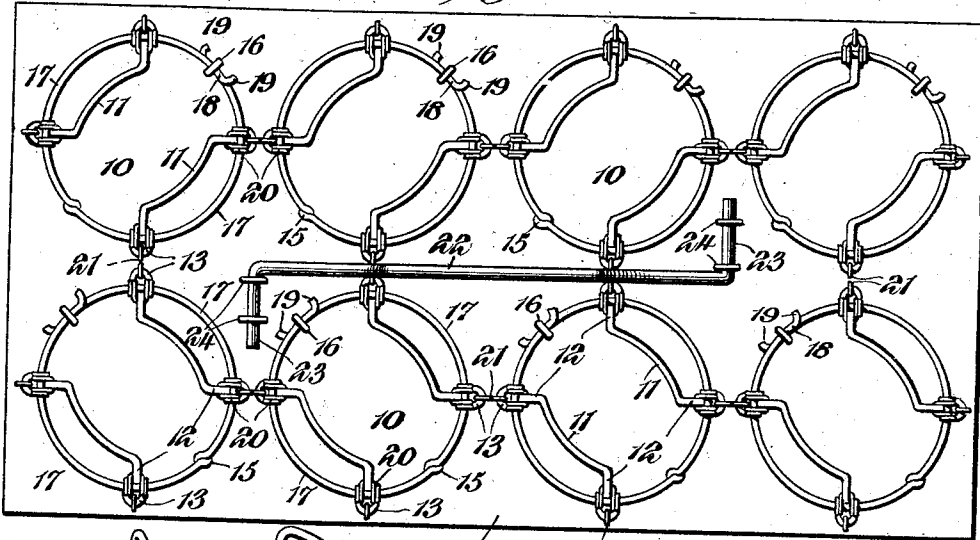


Fig. 2.

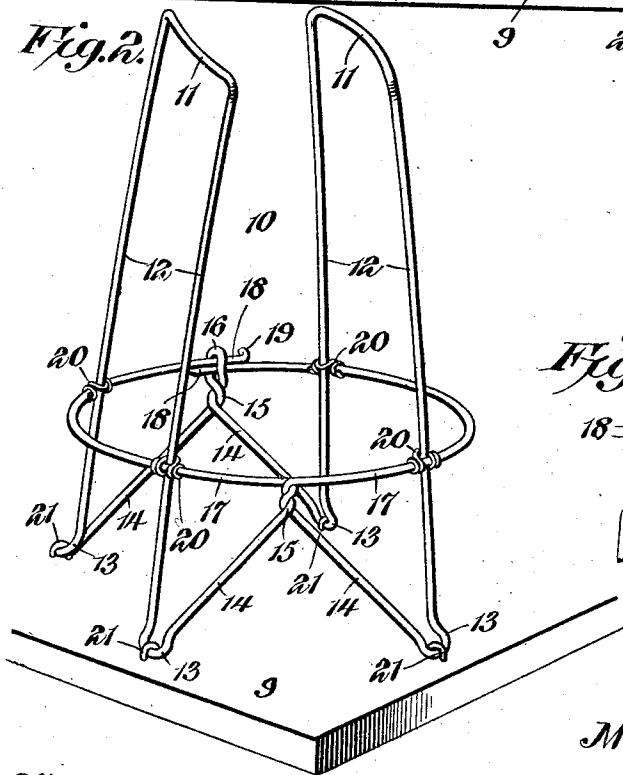


Fig. 3.

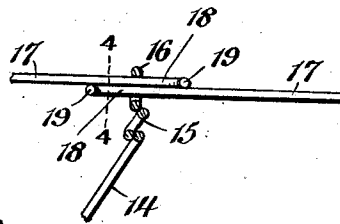


Fig. 4.

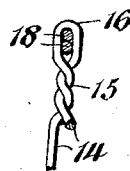
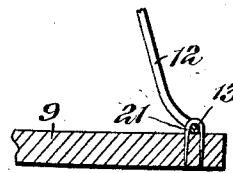


Fig. 5.



M. H. Hart, Inventor,

By

E. J. Figgers.

Attorney

Witnesses

Howard D. Orr.

B. H. Foster.

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2 SHEETS—SHEET 2.

Fig. 6.

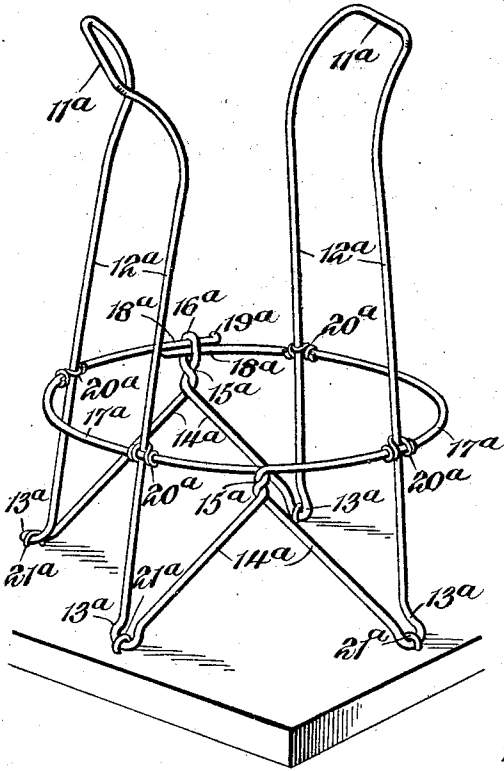


Fig. 7.

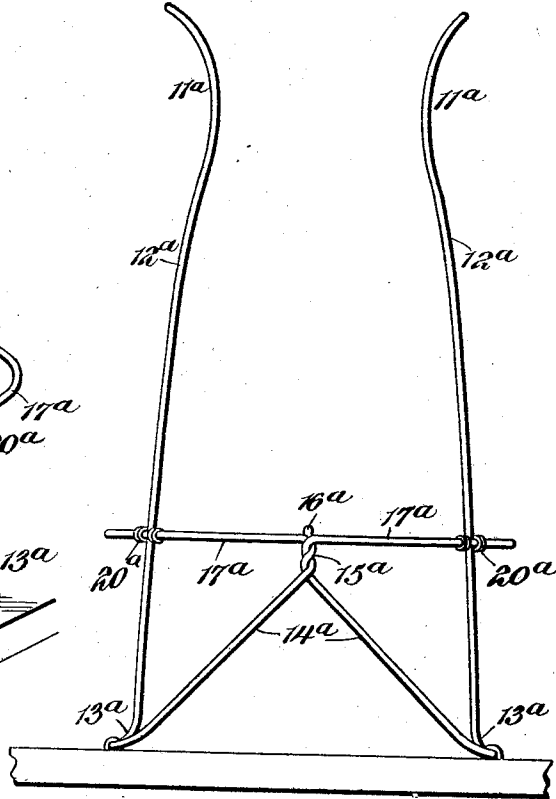
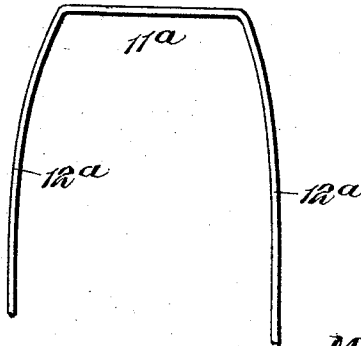


Fig. 8.



Witnesses

Howard D. Orr.
B. L. Foster

By

Inventor,
M. H. Hart,
E. G. Siggers

Attorney

UNITED STATES PATENT OFFICE.

MILLER HENRY HART, OF MARIETTA, OHIO.

HOLDER.

No. 857,998.

Specification of Letters Patent.

Patented June 25, 1907.

Application filed January 5, 1906. Serial No. 294,807.

To all whom it may concern:

Be it known that I, MILLER HENRY HART, a citizen of the United States, residing at Marietta, in the county of Washington and State of Ohio, have invented a new and useful Holder, of which the following is a specification.

This invention relates more particularly to means for safely holding bottles or like frangible articles.

The principal object is to provide a simple and novel structure, which can be readily secured to practically any ordinary base or support either by itself or associated with other holders, and will constitute a convenient and effective holder or retainer for bottles and the like, said device at the same time permitting ready insertion or removal of the bottles and leaving the same at all times exposed for consideration or inspection.

Two embodiments of the invention are illustrated in the accompanying drawings, wherein—

Figure 1 is a top plan view of a bottle carrier, showing a plurality of holders thereon. Fig. 2 is a perspective view of one of the holders. Fig. 3 is a sectional view through the eye, and showing the overlapped ends of the reinforcing ring. Fig. 4 is a sectional view on the line 4—4 of Fig. 3. Fig. 5 is a detail sectional view through the base, showing the manner of securing the holder thereto. Fig. 6 is a perspective view of a slightly modified form of structure. Fig. 7 is a side elevation of the same. Fig. 8 is a detail view of the upper portion of one of the clip members.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated in the first five figures, a base 9 is employed, which may be of any desired material or shape. Mounted on this base is a series of holders designated generally by the reference numeral 10. These holders are each preferably constructed of a single wire. This wire is bent into two yielding main loops 11, constituting oppositely disposed spring clip members, the side arms 12 thereof being provided at their lower ends with outstanding looped feet 13. The corresponding side arms of the oppositely disposed members are connected by angularly disposed braces 14, extending upwardly between said side arms and twisted together, as shown at 15. One of the sets of braces has its twisted portion extended to

form an eye 16, and extended from the other twisted portion are the curved sections 17 of a reinforcing ring, the free ends 18 of which are overlapped and are preferably slidably mounted in the eye 16, though the ring may be fixed and immovable. The ends in the embodiment shown are preferably provided with offset stops 19. The ring, as clearly shown in Fig. 2, surrounds the clip members between their ends, and is preferably fastened thereto in any desirable manner, as for instance by wires 20, though any other securing means may be employed. The holders are secured to the support 9 preferably by staples 21, though if said support is of metal, they may be soldered thereto or otherwise attached. A handle 22 completes the structure, shown, said handle having offset terminals 23, fastened, as shown at 24, to the base.

It will of course be understood that any desired number of the holders may be employed, and that they may be arranged in any manner desired. In the principal embodiment shown, said holders are intended for fruit jars, the jars being slipped between the clip members and downward within the ring. Said jars will thus be effectively retained, the yielding clips preventing their ready displacement, and also serving to protect the jars from dangerous shocks, as for instance, if the base should come in violent contact with some object while being carried. The reinforcing ring is an important feature, as it not only serves to hold the jars in place, but also adds resilience and strength to the clips. The ring is, however, expansible to permit the free introduction or removal of the jars.

The structure shown in Figs. 6, 7 and 8, is more particularly intended for milk bottles and the like. In this embodiment, clip members 11^a have side arms 12^a provided with feet 13^a, and connected at their lower ends by the angularly disposed braces 14^a. The corresponding braces are twisted together, as shown at 15^a, and one of the same has an eye 16^a. The other carries the ring sections 17^a having overlapped terminals 18^a, slidably mounted in the eye and provided with stops 19^a, said ring sections being secured as shown at 20^a to the side arms, and staples 21^a, or other securing means, fasten the holder in place. It will be observed that in the present embodiment, the upper ends of the clips are outwardly turned, thus forming a throat

or guide that receives the bottle or jar, and permits its ready introduction.

While the structure illustrated in the first five figures is shown in connection with a transportable carrier, it will of course be evident that these devices may be employed, as holders for advertising purposes in stores, and the like, or in storage places. Moreover, by merely changing the contour of the clips, the same may be employed for bottles and jars of various shapes and characters.

From the foregoing, it is thought that the construction, operation, and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to within the scope of the claims, without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. A holder of the class described composed of a single continuous wire, said wire having oppositely disposed upstanding yielding loops forming spring clip members and each having side arms provided with spaced lower ends, and spaced integral connections between the corresponding lower ends of the side arms of the loops.

2. In a holder of the class described, the combination with yielding clip members, of an expansible and contractible reinforcing ring connected thereto between the ends of said clip members, and supporting means for the rings located between the clip members and securing said ring against movement longitudinally of said members.

3. In a holder of the class described, the combination with yielding clip members, of an expansible and contractible ring associated therewith and having slidably overlapped ends.

4. In a holder of the class described, the combination with yielding clip members, of an expansible and contractible ring associated therewith and having slidably overlapped ends, and a keeper in which said overlapped ends slide.

5. In a holder of the class described, the combination with oppositely arranged spring clip members comprising upstanding yielding loops, of connections between the lower ends of the loops, an eye arranged between the loops at one side of the same, and an expansible and contractible reinforcing ring associated with the loops between their ends and having overlapped slidably associated terminals engaged in said eye.

6. In a holder of the class described, the combination with yielding clips, of braces between the clips, and a reinforcing ring mounted on the braces and associated with the clips.

7. In a holder of the class described, the combination with yielding clips, of braces connecting the clips, one of the braces having an eye, and an expansible and contractible reinforcing ring mounted on the braces and connected to the clips, said ring having ends slidably located in the eye.

8. In a holder of the class described, the combination with spring clips comprising oppositely disposed yielding loops, of angularly disposed braces connected to the corresponding lower ends of the loops and forming connections between the same, one of said sets of braces having an eye, and a reinforcing ring extending from the other set, said ring surrounding the clips between their ends and having overlapped terminals slidably located in the eye.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

MILLER HENRY HART.

Witnesses:

S. C. SHEPARD,
A. A. SCHRAMM.