W. A. YOUNIE.

GLASS HOLDER.

APPLICATION FILED JAN. 21, 1911.

1,023,405. Patented Apr. 16, 1912.

Fig. 1.

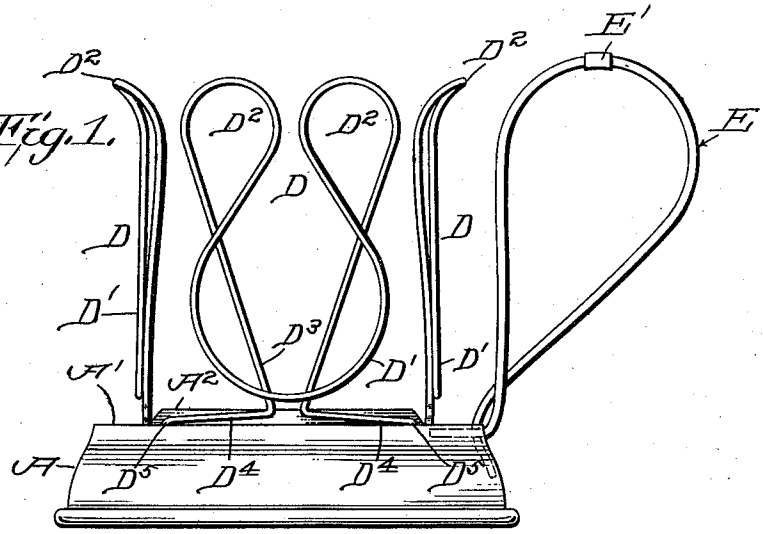


Fig. 2.

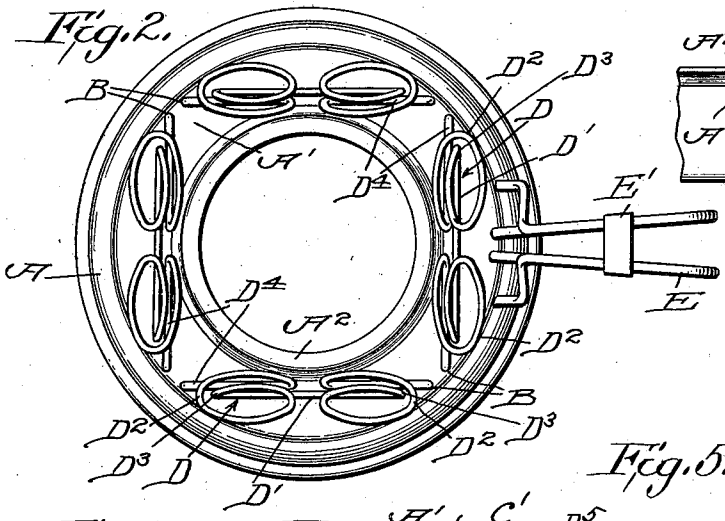


Fig. 4.

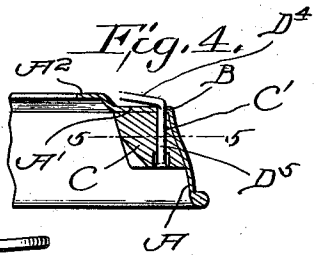


Fig. 3

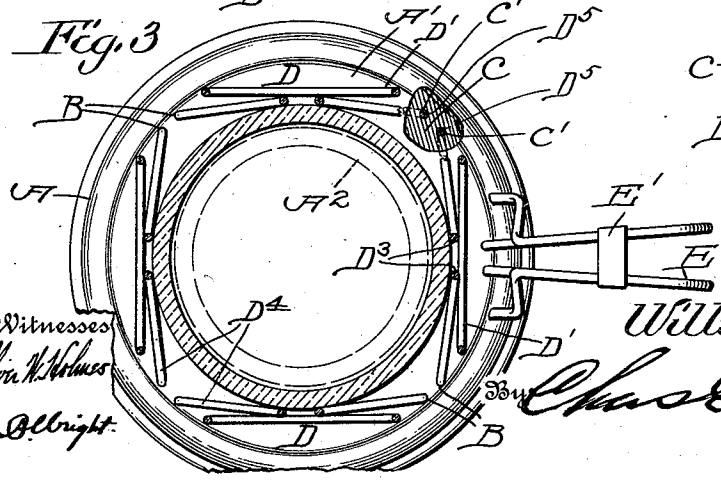
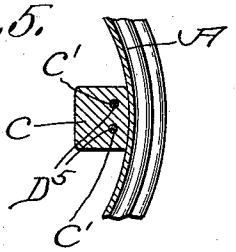


Fig. 5.



Witnesses

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GLASS-HOLDER.

1,023,405. Specification of Letters Patent. Patented Apr. 16, 1912.

Application filed January 21, 1911. Serial No. 603,950.

To all whom it may concern:

Be it known that I, WILLIAM A. YOUNIE, a citizen of the United States, residing at Everett, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Glass-Holders, of which the following is a specification.

This invention relates to certain new and useful improvements in glass holders and more particularly to soda water glass holders, the object being to provide a holder in which the glass holding frames are pivotally mounted in such a manner that they are free to swing in order to allow the same to expand to accommodate glasses of all sizes.

Another object of my invention is to provide a holder which comprises a base having frames mounted thereon formed of spring wire provided with supporting members spaced apart, each of said supporting members being pivotally mounted within the base in such a manner that the frames can swing outwardly when a glass is placed between the same, thereby overcoming the difficulties now existing with holders of this character where frames are fixed by solder.

A still further object of my invention is to provide a holder which is exceedingly simple and cheap in construction, and one which is very strong and durable.

With these objects in view, the invention consists in the novel features of construction, combination and arrangement of parts hereinafter fully described and pointed out in the claims.

In the drawing forming a part of this specification, Figure 1 is a side elevation of my improved glass holder. Fig. 2 is a top plan view of the same. Fig. 3 is a horizontal section partly broken away showing a glass in section in position therein, the frames being expanded. Fig. 4 is a detail vertical transverse section through a portion of the base showing the bearing member. Fig. 5 is a section taken on line 5—5 of Fig. 4.

In carrying out my improved invention, I employ an inwardly tapering base ring A which is provided with an inwardly projecting annular flange A′ terminating in an annular flange A^2 forming a support for the glass in such a manner that the glass will be supported in a horizontal plane above the flange of the base. Oppositely disposed spaced openings B are formed in the flange A′ adjacent its outer edge which register with openings C′ formed in bearing blocks C secured under the flange as clearly shown in Fig. 4, and in which are pivotally mounted the supporting members of spring-wire grasping frames D between which the glass is adapted to be forced in such a manner that the frames will expand to accommodate different size glasses, and will grasp the glass in such a manner that it will be held firmly between the frames so that all danger of its dropping out is prevented.

Each of the frames D are formed of a single piece of wire bent centrally to form an open loop D′ terminating in spaced loops D^2, the ends of which converge as shown at D^3, and are then bent outwardly in opposite directions as shown at D^4, and then downwardly at right angles to form vertical supporting members D^5 which extend through the openings B into the openings of the bearing members C, and are pivotally mounted therein in such a manner that they are free to swing in order to allow the frames to expand when a glass is placed between the same. The ends are held within the bearing members by swaging the same as clearly shown in Fig. 4 so as to prevent the frames from becoming detached from the base. The loops D^2 are slightly bent outwardly or expanded as clearly shown in order to allow the glass to be forced between the frames, and it will be seen that the frames swing outwardly when the glass is forced down between the same in such a manner that the base can accommodate a glass of a diameter substantially the diameter of the base ring. By mounting the frames in this manner each supporting member has a limited amount of movement independent of the other supporting member, the resiliency of the wire allowing one member to move slightly. When a glass is forced between the same the periphery of the glass is brought into engagement with the portions D^3 of the frames which force said members outwardly causing the supporting members to swing in the bearings, it will also be seen that the frames move outwardly independent of the swinging movement, whereby the glass will be securely grasped.

I provide the base ring with a handle E which is formed of a pair of wires secured together at E′, two of the ends of which pass through openings formed in the flange

A′, and are secured against the inner face of the ring, and the other ends extend through openings formed in the ring A and are secured to the under face of the flange A′ by solder in such a manner that the handle will be securely attached to the base ring.

What I claim is:—

1. A glass holder comprising a base provided with bearings, and a plurality of frames each having spaced supporting members pivotally mounted in said bearings.

2. A glass holder comprising a base ring having bearings formed therein, resilient wire frames having spaced supporting members pivotally mounted in said bearings, and a handle secured to said base.

3. A glass holder comprising a base ring having a flange provided with a raised portion forming a support for a glass, said flange being provided with spaced oppositely disposed openings adjacent its outer edge, bearing blocks arranged under each flange provided with openings registering with the openings of said flange, spring wire frames provided with spaced supporting members pivotally mounted in said bearings, said frames having outwardly extending upper portions.

4. A glass holder comprising a base, a plurality of springs loosely mounted on said base, each frame comprising spaced loops connected by a loop at one end and provided with converging end portions, said end portions having outwardly extending ends provided with supporting members, each supporting member being pivotally mounted in said base.

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