Oct. 9, 1934. S. G. MONROE ET AL 1,976,623

JAR CLAMPING TOOL

Filed May 24, 1933

Fig-1-

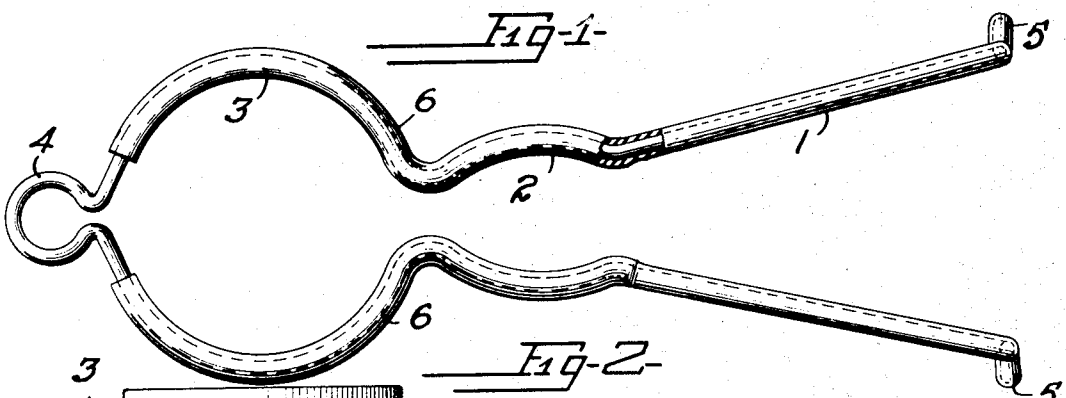


Fig-2-

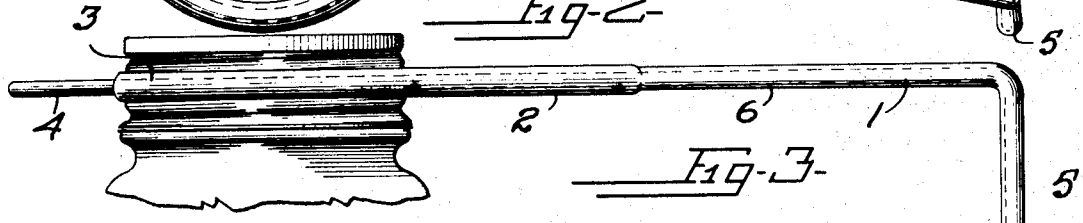


Fig-3-

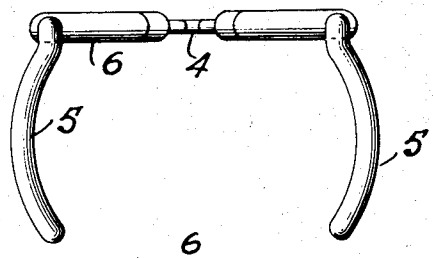


Fig-4-

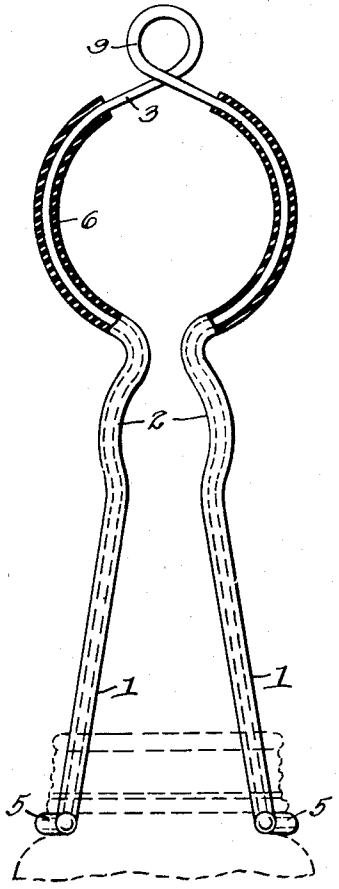


Fig-5-

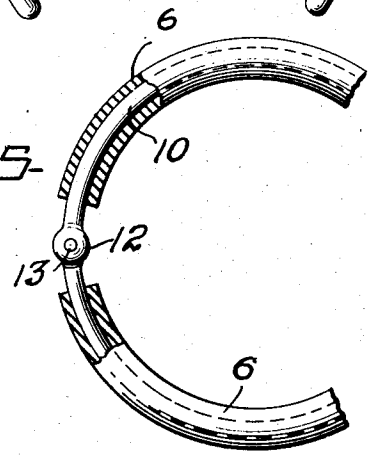
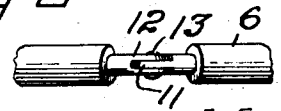


Fig-6-



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JAR CLAMPING TOOL

Stanley G. Monroe and Frank Shepherd, Akron, Ohio

Application May 24, 1933, Serial No. 672,711

1 Claim. (Cl. 81—3.1)

This invention relates to jar clamps and its general object is to provide a clamping tool that is primarily designed for association with Mason jars and the like for applying and removing the caps thereof as well as for lifting, carrying and handling the jars in moving them from place to place when hot or otherwise difficult to handle, without fear of injury to the person or damage to the jars or caps thereof.

Another object of the invention is to provide a jar clamp that includes protecting and gripping means that is thickened or increased where needed, in order to prolong the life of the device and to facilitate the easy and convenient operation thereof.

A further object of the invention is to provide a jar clamp of the character set forth, that is simple in construction, inexpensive to manufacture, easy to use and extremely efficient in operation and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claim.

In describing our invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a top plan view of one form of our clamp.

Figure 2 is a side view showing the same in use.

Figure 3 is an end view thereof.

Figure 4 is a view of a modified form with parts in section and illustrates the application of the clamp to a jar when lifting, carrying or otherwise handling the same.

Figure 5 is a similar view of a further modified form.

Figure 6 is an end view of the form as shown in Figure 5, with parts broken away.

Referring to the drawing in detail, and particularly to Figures 1 to 3 inclusive, it will be noted that our jar clamp may include a frame which is formed from a single piece of resilient wire or other material having sufficient resiliency to perform the intended functions.

The frame is bent to provide handles 1 which are normally disposed in diverging relation with respect to each other, as clearly shown in Figure 1, and formed inwardly of the handles are curved portions 2 for a purpose which will be later described, and the curved portions have formed thereon substantially semi-circular portions 3 which have their inner ends spaced and terminate into a coil 4 to add to the resiliency of the device as will be apparent.

The outer ends of the handles 1 have formed thereon arms 5 which are disposed at right angles with respect thereto and are slightly curved upon themselves as best shown in Figure 3.

The handles 1, curved portions 2, and the major parts of the semi-circular portions are covered with a tubing 6 which may be formed from rubber or a composition containing the same in order to set up a gripping action as will be apparent. The parts of the covering or tubing 6 that receive the semi-circular portions and the curved portions are thickened as clearly shown in Figure 1, to compensate for wear as well as to increase the gripping qualities, as it will be obvious that the semi-circular portions as well as the curved portions are adapted to grip jars and caps in applying and removing the caps.

In Figure 4 we have illustrated a slightly modified form in which the substantially semi-circular portions have their inner ends slightly inclined and disposed to cross each other and terminate in a coil 9.

In the modified form of Figures 5 and 6, it will be noted that the semi-circular portions which for distinction are indicated by the reference numeral 10 are pivotally connected with each other and for that purpose the inner end of one semi-circular portion is bifurcated, while the inner end of the other semi-circular portion is reduced as at 11 to be received between the ears 12 of the bifurcation, with the pivot pin 13 extending through the ears and reduced portion as clearly shown in Figure 6.

From the above description and disclosure of the drawing, it will be obvious that we have provided a jar clamp that may be used singly or in pairs when applying or removing the caps of jars, and while we have shown the semi-circular portions which are of course jaws applied to the cap of a jar, the semi-circular portions or jaws of another clamp may be applied to the neck of the jar so that an ample purchase may be had thereon. The curved portions 2 also act in the capacity of jaws for use on smaller jars and their caps.

In lifting, carrying or otherwise handling the jars, the arms 5 come into use and are applied about the neck of a jaw as clearly shown in Figure 4. The covering or tubing 6 is used in all forms of the invention and extends about the arms 5 so that an ample gripping surface will be provided, as will be apparent.

It is thought from the foregoing description that the advantages and novel features of our invention will be readily apparent.

We desire it to be understood that we may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What we claim is:

In a jar carrying and cap removing tool, a frame formed from a single strand of resilient wire and including handles, outwardly curved portions formed on said handles, semi-circular portions formed on the outwardly curved portions, said outwardly curved portions and semi-circular portions providing clamping jaws, said semi-circular portions having their inner ends crossed, a coil formed with the crossed ends to add to the resiliency of the frame, an elastic covering for said tool and disposed on the major portion thereof, and said covering being thickened where disposed about the jaws.

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