Dec. 13, 1927. 1,652,970

M. A. WORKMAN

ADJUSTABLE HOOP

Filed Aug. 9, 1926

Fig. 1.

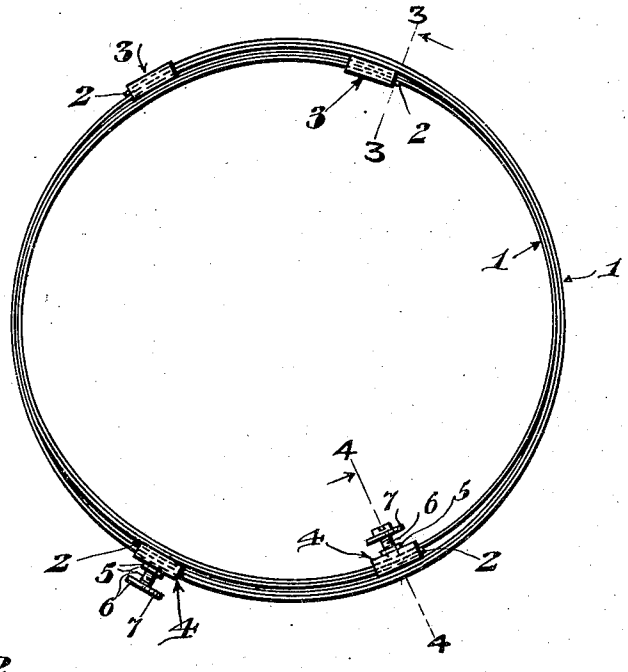


Fig. 2.

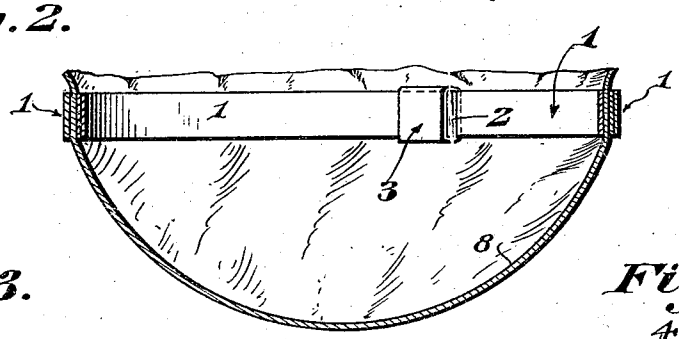


Fig. 3.

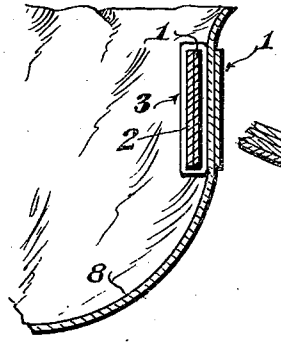


Fig. 5.

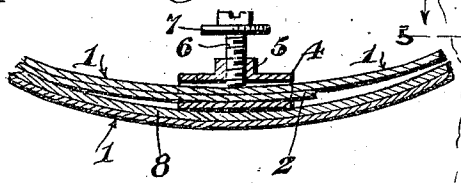
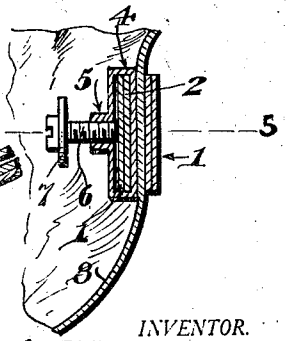


Fig. 4.



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UNITED STATES PATENT OFFICE.

MARGARET A. WORKMAN, OF KANSAS CITY, KANSAS.

ADJUSTABLE HOOP.

Application filed August 9, 1926. Serial No. 128,279.

This invention relates to an adjustable hoop device and pertains particularly to a hoop designed primarily to be used in pairs for securing together articles of cloth in a bag-like manner to set up a strainer or strainer-bag, or for securing the cloth tight for the purpose of doing needlework thereon. The device can also be used singly for supporting hot plates, irons or other devices which are to be kept raised from the supporting surface.

The primary object of this invention is the provision, in a manner as hereinafter set forth, of an adjustable hoop which can be easily and quickly increased or decreased in size as desired, and secured in the adjusted position.

The invention contemplates the provision of a band of spring steel bent upon itself to form a hoop, with the ends thereof overlapping, one end having secured thereto and surrounding the adjacent part of the band, a closed ring or collar, while the other end carries a similar closed band which surrounds the contacting portion of the hoop, this closed band being provided with a set screw which can be shifted to secure the band body and its contacting end portion together to maintain the looped band at the desired size.

Further objects and advantages of the invention will become apparent as the description proceeds, the description referring to the accompanying drawing which forms a part of this specification, but it is to be understood that the invention is not confined to any strict conformity with the showing of the drawing but may be changed and modified so long as such changes and modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawing:—

Figure 1 shows a pair of the hoops embodying this invention, in nested relation, the same being in plan view.

Figure 2 is a view taken transversely of the nested hoops shown in Figure 1, showing the manner in which a cloth bag can be secured therebetween.

Figure 3 is a transverse section taken upon the line 3—3 of Figure 1.

Figure 4 is a transverse section taken upon the line 4—4 of Figure 1 and,

Figure 5 is a section taken upon the line 5—5 of Figure 4.

Referring now to the drawing in detail wherein like numerals of reference indicate corresponding parts throughout the several views, the numerals 1 indicate generally a relatively long band of spring steel. Each of these bands is formed into a loop, having the ends 2 in overlapping relation in the manner shown.

One of the ends of each loop is surrounded by a flat band 3, through which band the adjacent or contacting portion of the loop band body passes.

The other end of each loop band, is surrounded by and has secured thereto a flat clamp band 4, and through this clamp band the adjacent portion of the looped band body passes.

The clamp band 4 of certain of the hoops is provided upon its inner side with the inwardly extending collar 5, through which collar and the adjacent side of the clamp band 4, a threaded passage is formed.

Threaded into the collar 5 from the inside of the loop is the set screw 6 having the finger flange 7 about the head thereof so that the screw can be threaded inwardly by hand. It is, of course, understood and apparent from the showing of Figures 4 and 5 of the drawing that the fixed end 2 of this hoop, which has the clamp screw 6 upon the inside, is fixed to the opposite side of the clamp loop from that through which the set screw 6 extends, thus the body of the loop 1 slides through the clamp loop 4 between the end of the set screw 6 and the end 2 of the hoop.

Certain of the other hoops have the clamp loop 4 fixed thereto in reversed condition, as is shown in Figure 1. In this type the securing screws 6 and threaded collar 5 are upon the outside of the clamp loop in the manner as shown. It will be readily apparent from this description, as well as from the showing in the drawing, that this manner of constructing certain of the hoops with the securing screws upon the inside and others with the securing screw upon the outside, is to permit the nesting of the hoops in the manner shown so that a piece of cloth may be secured between the nested hoops, as indicated at 8 in Figures 2 to 5 inclusive.

From the foregoing description it will also be readily seen that the size of the hoops can be varied as desired, by simply loosening the screws 6 and sliding the loops 3 and 4 toward or away from one another thus increasing or decreasing the overlap of the

ends 2 and consequently varying the size of the hoops.

An adjustable hoop of the character described is adaptable for many uses, when used in pairs each pair can be made to hold a cloth bag as indicated in Figure 2 for supporting coffee in an urn, supporting vegetables in boiling water, for straining vegetables and jellies, and for innumerable other uses where a straining cloth is of service. The hoop can also be used as an embroidery hoop, to hold the cloth tightly for the application of needle work, or when used separately the hoops can be employed for supporting hot irons, hot dishes and other articles upon tables that would otherwise be ruined by such hot articles.

Having thus described my invention what I claim is:—

1. A device of the character described, comprising inner and outer interfitted adjustable hoops, each hoop being formed from a single length of resilient band having its ends disposed in overlapped relation to each other, a loop on one end of the band and slidably receiving a portion adjacent thereto of the band, a sleeve on the other end of the band and slidably receiving a portion adjacent thereto of the band, and set screws engaged in the sleeve to lock the bands correspondingly expanded or contracted for their close interfitting engagement with each other.

2. A device of the character described, comprising inner and outer interfitted adjustable hoops, each hoop being formed from a single length of resilient band having its ends disposed in overlapped relation to each other, a loop on one end of the band and slidably receiving a portion adjacent thereto of the band, a sleeve on the other end of the band and slidably receiving a portion adjacent thereto of the band, set screws engaged in the sleeve to lock the bands correspondingly expanded or contracted for their close interfitting engagement with each other, and a strainer element clamped between the hoops when interfitted with each other.

In testimony whereof, I affix my signature hereto.

MARGARET A. WORKMAN.