

A. F. COLLINS.
 EMBROIDERY HOLDER.
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997,545.

Patented July 11, 1911.

Fig. 1

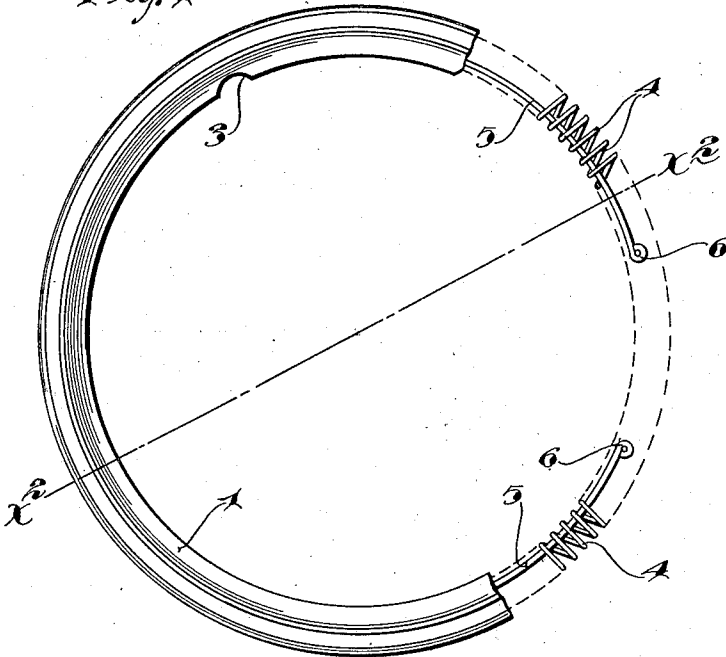


Fig. 2



Fig. 3

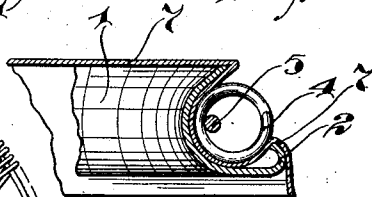
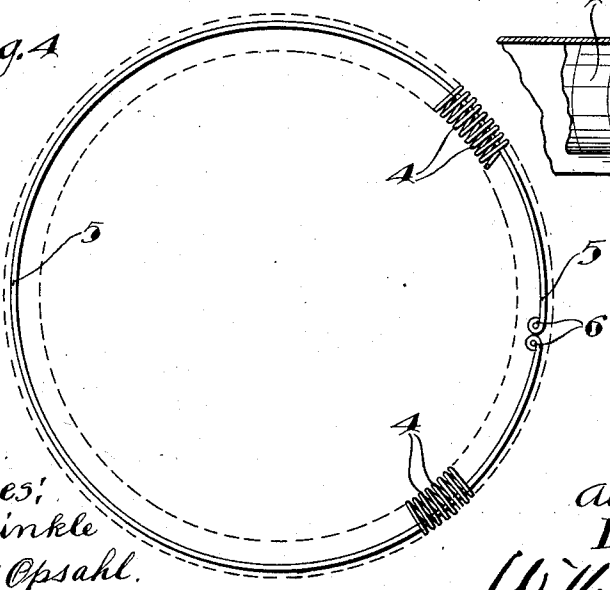


Fig. 4



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UNITED STATES PATENT OFFICE.

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EMBROIDERY-HOLDER.

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To all whom it may concern:

Be it known that I, ALBERT F. COLLINS, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Embroidery-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its especial object to provide an improved embroidery holder of the type sometimes designated as an embroidery hoop, but the device is capable of much more general use.

The invention consists of the novel devices and combinations of devices hereinafter described and defined in the claims.

In the accompanying drawings: Figure 1 is a plan view with some parts broken away showing the improved device. Fig. 2 is a section taken on the line $x^2 x^2$ of Fig. 1. Fig. 3 is a fragmentary section on the same line as Fig. 2 showing the parts on a larger scale than in Fig. 2 and showing a piece of cloth held by the device; and, Fig. 4 is a plan view of the elastic clamping band of the device some parts being indicated diagrammatically by dotted lines only.

The improved holder comprises a channel shaped hoop and an elastic clamping band, which latter in itself is of novel construction. The hoop 1 is preferably spun or stamped from quite thin sheet metal, and is formed with an external channel, one flange thereof being bent inward to afford a reinforcing or stiffening rib 2. The hoop 1 is formed with a radial perforation 3, the purpose of which will presently appear.

The elastic band is made up of an endless coiled spring 4 and a circumferentially expansible reinforcing hoop 5 preferably made from spring wire having its ends bent or otherwise formed with heads 6.

When the elastic clamping band is removed from the body hoop 1, the coiled spring 4 will draw the ends 6 of the reinforcing hoop 5 together, but the said reinforcing hoop will prevent kinking or buckling of the said spring. When the hoop is applied to hold the work 7 stretched over the upper flange of the body hoop, as shown

in Fig. 3, the ends of the reinforcing hoop 5 will be separated, as shown in Fig. 1, and the said reinforcing hoop will then increase the tension of the spiral spring and thus assist in holding the work properly stretched over the body hoop 1.

By reference to Fig. 3 it will be noted that the piece of cloth or work 7 is clamped against the edge of the flange 2, by the cylindrical body of the coiled spring 4. This causes the elastic clamping band to more firmly hold the cloth in working position.

The radial perforation 3 of the hoop 1 permits the thumb or finger to be inserted through the hoop, to thereby force the elastic clamping band or spring 4 far enough out of the channel of the hoop to permit the same to be readily engaged by the fingers of one hand and hence readily entirely removed from the hoop and from the work.

The device described may be cheaply constructed and in practice has been found highly efficient for the purposes had in view. It is capable of general use for holding cloth or flexible material for various purposes such as embroidering, decorating with paint or otherwise and it may even be used for holding cloth that is to be darned or stitched by a machine.

What I claim is:

1. In a device of the kind described, the combination with a body hoop having an external channel, of an elastic clamping ring comprising an endless coiled spring, and a reinforcing wire hoop extended axially within the same, said body hoop having a radial perforation through which a finger may be inserted to press the said ring out of the channel of said hoop.

2. In a device of the kind described, the combination with a hoop having an external channel, of an endless coiled spring engageable with the channel of said hoop, and a circumferentially expansible reinforcing hoop extended axially within said coiled spring, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT F. COLLINS.

Witnesses:

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