

No. 627,821.

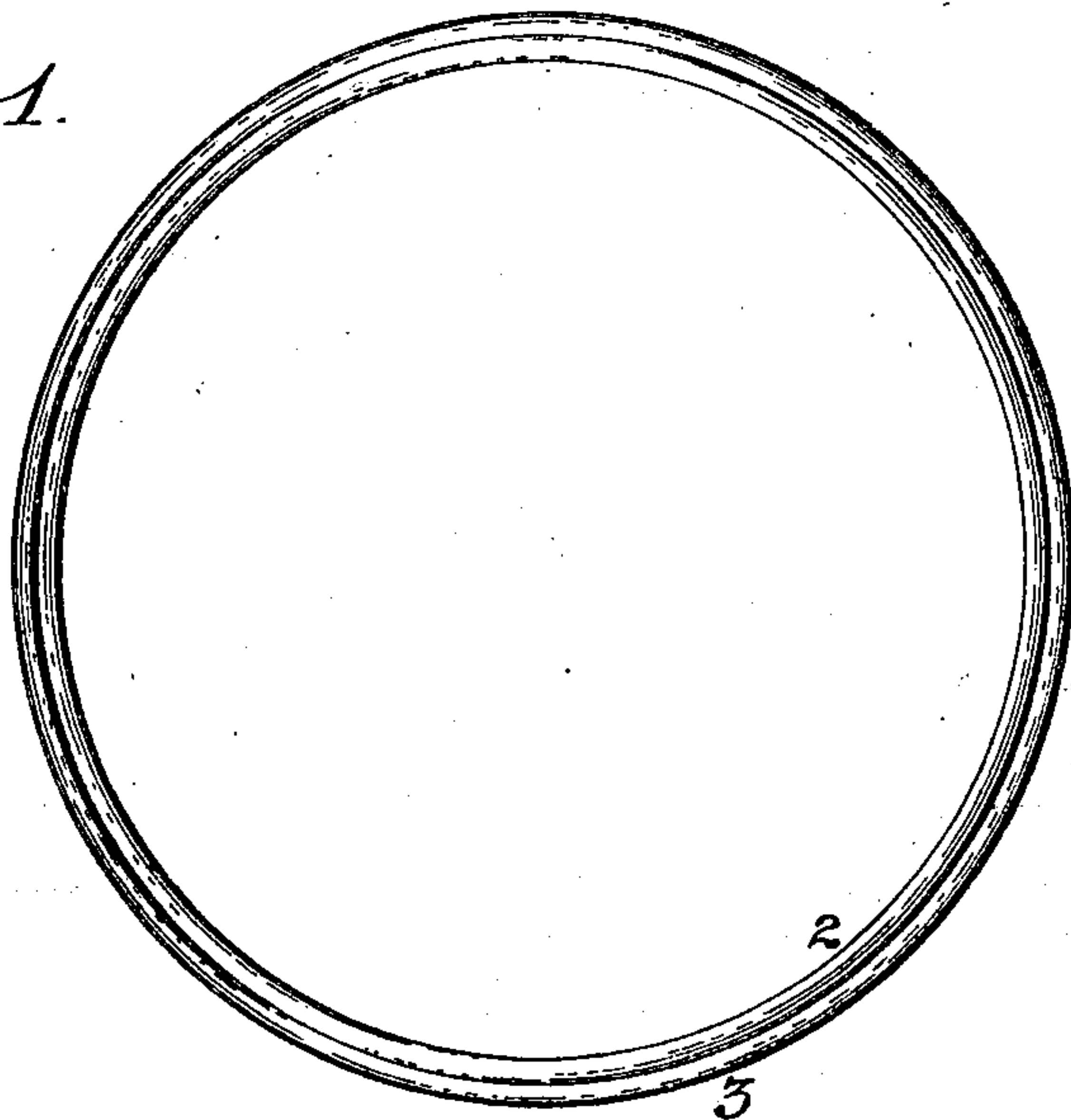
Patented June 27, 1899.

I. Q. GURNEE.  
EMBROIDERY RING.

(Application filed Apr. 22, 1897.)

(No Model.)

*Fig. 1.*



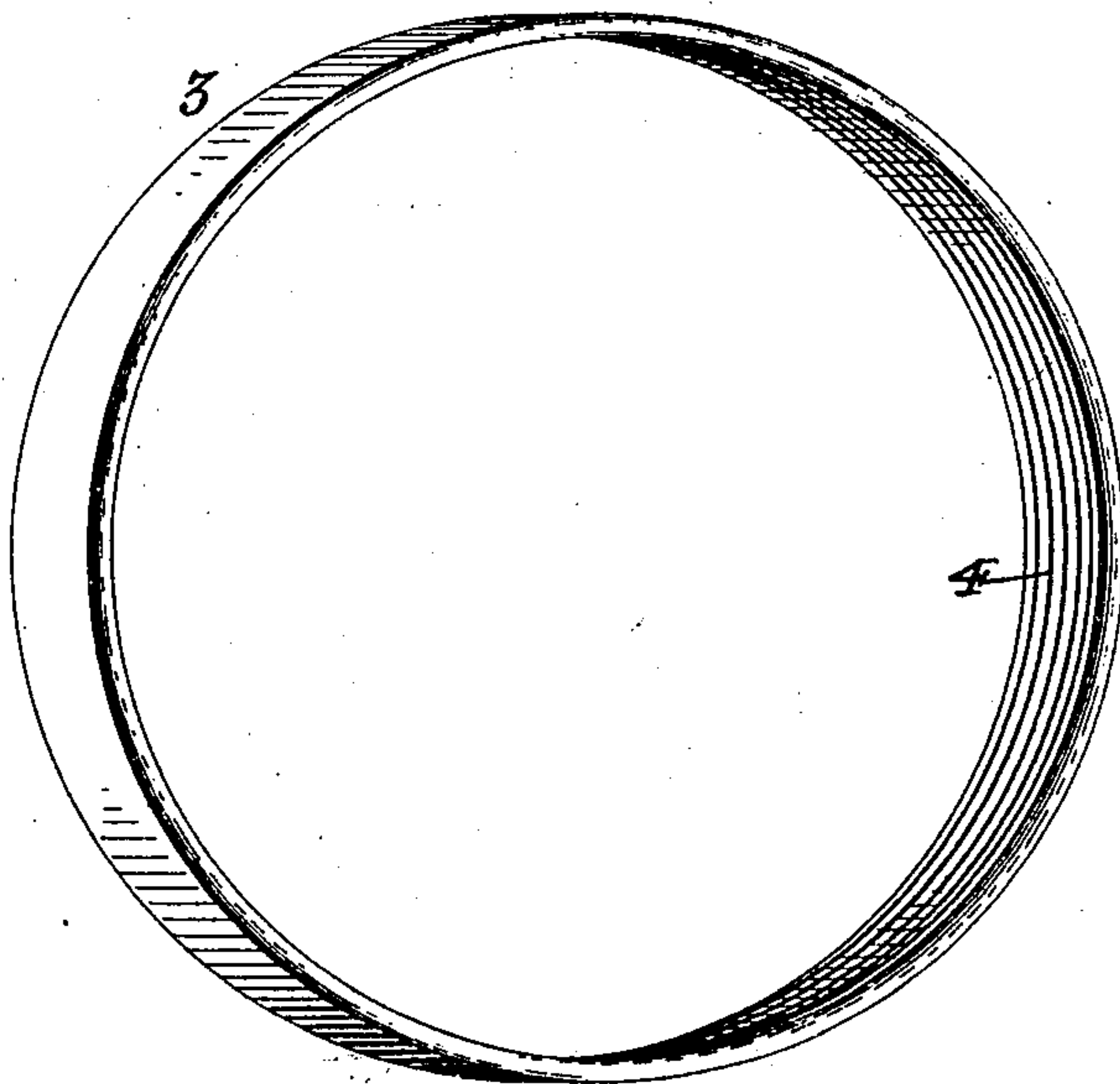
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses

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Inventor

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# UNITED STATES PATENT OFFICE.

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## EMBROIDERY-RING.

SPECIFICATION forming part of Letters Patent No. 627,821, dated June 27, 1899.

Application filed April 22, 1897. Serial No. 633,309. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC Q. GURNEE, of Butler, county of Morris, and State of New Jersey, have invented a new and useful Improvement in Embroidery-Rings; and I do 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, reference being had to the figures marked on the accompanying drawings, which form a part of this specification.

My invention relates to embroidery-rings, preferably for handwork-embroidery.

Embroidery-rings have been in use for many years. They have been made of wood and other material. As generally constructed there are two concentric rings of different diameters, the smaller one being capable of fitting more or less snugly within the outer ring.

Figure 1 represents a pair of embroidery-rings, one within the other. Fig. 2 represents a central vertical section of the same. Fig. 3 represents a side elevation of the inner ring, which is corrugated, as shown. Fig. 4 represents a perspective view of a modification of the outer ring.

Embroidery-rings as ordinarily constructed have their clamping-faces smooth, which when the fabric is clamped within the rings frequently results in a slipping or release of the tension of the cloth, occasioning much annoyance in their use. This is particularly so where the rings are made of wood, owing to the irregularity of the curvature of the same.

In my invention I provide a longitudinal series of corrugations or ridges upon the outer clamping-face of the inner ring, which ridges or corrugations have the effect when the cloth is clamped between the rings of securely fastening the same thereto, whereby any tendency of the cloth to slip within the clamp, so as to release the tension, is effectually prevented; but while the cloth is thus securely held by the corrugations, so as to prevent transverse slipping, whereby the tension would be released owing to the longitu-

dinal character of the corrugations, it is capable of adjustment around the circumference of the rings, thereby providing for "truing" the fabric after it has been clamped in the rings and without in way loosening or releasing the tension. By this means I provide for straightening a pattern or adjusting the cloth so the warp and woof shall run at right angles to each other, and this without at all loosening the tension. In Fig. 4 the inner face of the outer ring 3 is shown similarly corrugated at 4 for the same purpose.

It is only necessary to have one of the clamping-faces of one of the rings corrugated, though both may be.

Heretofore embroidery-rings have been made in which the inner ring was of concavo-convex form and the outer ring of a coiled wire which was expanded and sprung upon the inner ring. Such construction, however, has often the effect of marking and damaging the goods, and the construction does not permit of the inner ring being forced laterally into the outer without first expanding the outer ring—an operation not usually easily accomplished. In embroidery-rings of this class it is especially desirable to do away with the use of a metallic substance which may come in contact with the delicate fabric and by oxidation or pressure injure the same. I prefer to construct these concentric rings of hard rubber or some similar plastic compound.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A pair of embroidery rings or bands having a longitudinal corrugated face between them.

2. A pair of embroidery rings or bands, one of which has a longitudinal corrugated clamping-face and the other a plain face.

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

ISAAC Q. GURNEE.

Witnesses:

GEO. J. FRITZ,  
JOS. F. McLEAN.