No. 648,722. Patented May 1, 1900.

W. J. BOYER.

EMBROIDERY FRAME.

(Application filed May 7, 1897.)

(No Model.)

FIG. 1

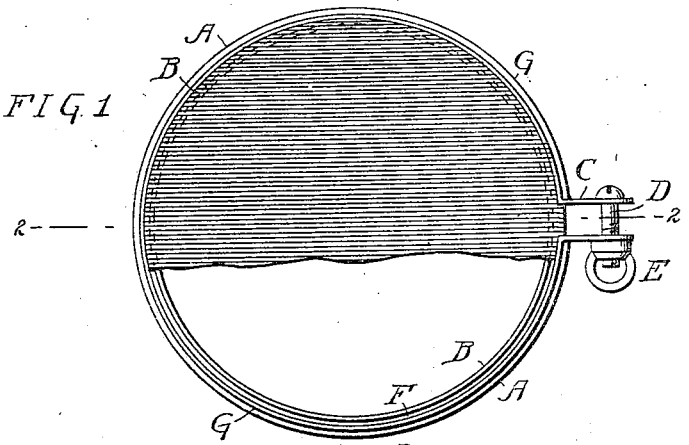
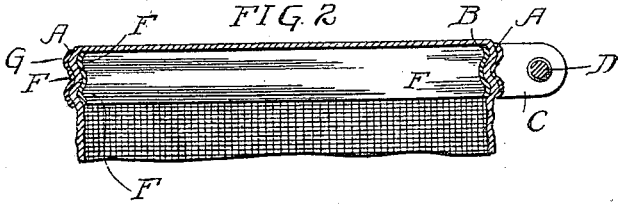


FIG. 2



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UNITED STATES PATENT OFFICE.

WILLIAM J. BOYER, OF WILMINGTON, DELAWARE.

EMBROIDERY-FRAME.

SPECIFICATION forming part of Letters Patent No. 648,722, dated May 1, 1900.

Application filed May 7, 1897. Serial No. 635,516. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. BOYER, a citizen of the United States, residing at Wilmington, in the county of New Castle, State of Delaware, have invented a new and useful Improvement in Embroidery-Frames, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to certain improvements in embroidery-frames, and has for its object to provide a simple and cheaply-constructed device for holding a portion of the fabric or other material to be embroidered and for clamping and stretching the same for the convenience of the operator.

In the accompanying drawings, Figure 1 is a top view of an embroidery-frame embodying my invention. Fig. 2 is a transverse sectional elevation of the same on the line 2 2, Fig. 1.

Similar letters of reference indicate corresponding parts in both figures.

Referring to the drawings, A and B designate concentric hoops or rings, the said rings having between them one or more grooves and tongues, forming a corrugated surface, in order to more firmly hold the fabric or other material which is to be embroidered.

In the present instance the exterior ring A is divided, having on each of its ends ears C, in which is mounted a screw D, the latter having fitted to it a nut E, whereby said ring may be contracted or permitted to expand. The hoops or rings A and B are provided with grooves and tongues, forming a corrugated face between them, and on reference to the drawings it will be seen that the corrugations on each hoop or ring are in the form of tongues F and grooves G, the tongues of the ring A entering the grooves of the ring B, and vice versa, and said tongues and gooves are preferably V-shaped or angular for purposes to be hereinafter explained.

When the exterior ring is divided, it will be seen that when the nut E is properly rotated the hoop A expands, and the ring B may then be removed therefrom. A portion of the fabric or other material to be worked or embroidered is now placed over and sustained upon the inner ring B and the adjacent portion thereof turned down parallel with the periphery of said ring. The outer ring A is then placed over the fabric or material on the ring B, and the nut E is rotated so as to draw together the lips C, and as a consequence the fabric is stretched or tightened. It will be noticed that owing to the interlocking corrugations of the concentric rings shown in the drawings the fabric will be firmly held in a taut and stretched position. The surfaces may be roughened or serrated in order to more firmly hold the fabric.

Where the corrugated surfaces or the face of the holding-gasket is roughened by notching or serrations, the fabric is held more firmly in position; but the corrugations are generally sufficient for the purpose.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A pair of concentric embroidery rings or hoops each having a longitudinally-corrugated face, the corrugations of one ring or hoop being adapted to fit into the spaces between the projecting corrugations of the other ring or hoop.

2. An embroidery-frame consisting of two concentric rings or hoops, the outer ring being adapted to expand and contract and having on the ends of the same a screw for effecting its expansion and contraction, the said rings being corrugated longitudinally to form bights for the fabric and constituting crimps on the rings.

3. As a new article of manufacture, an embroidery-frame consisting of a pair of concentric rings, one of which is divided and has a screw on the ends with a tightening-nut thereon, the sides of said rings having interlocking crimps thereon.

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