No. 840,232. PATENTED JAN. 1, 1907.

E. McCOMBIE.

STRETCHER FRAME.

APPLICATION FILED SEPT. 17, 1906.

Fig. 1.

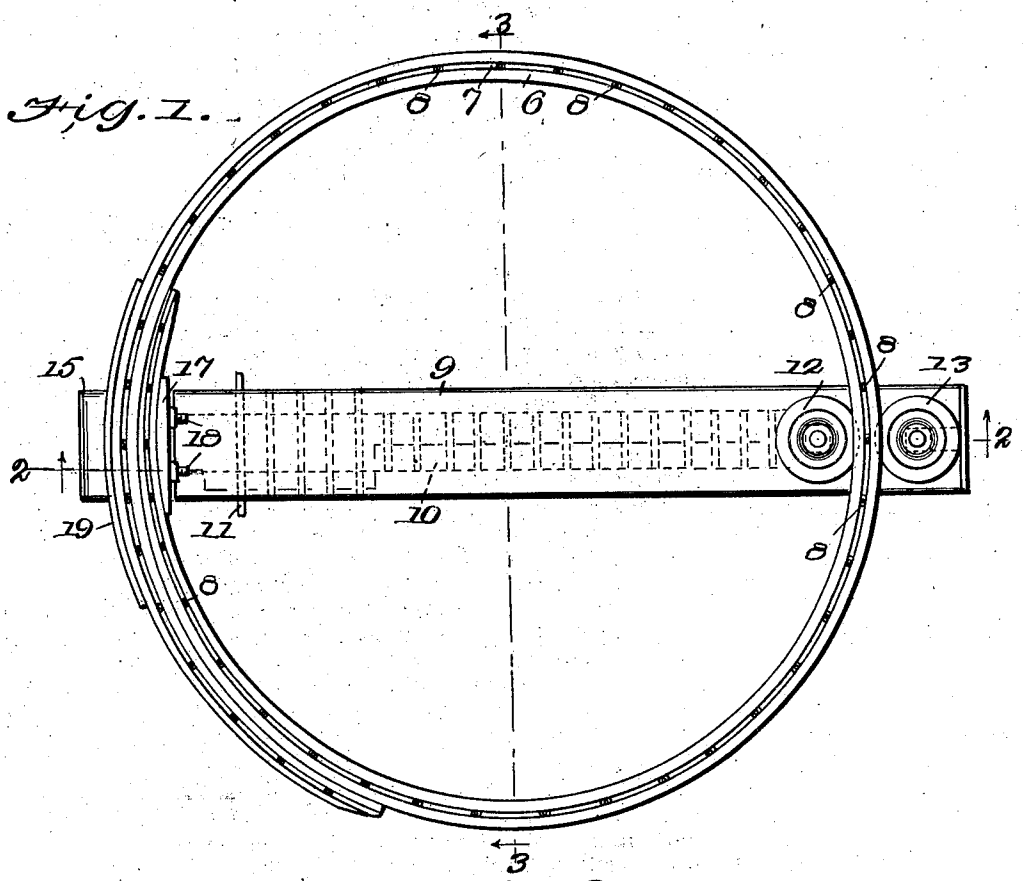


Fig. 2.

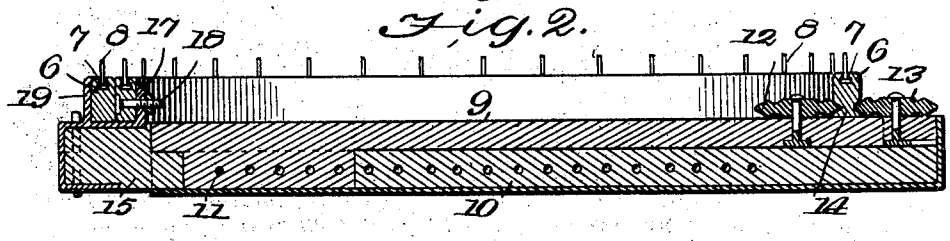
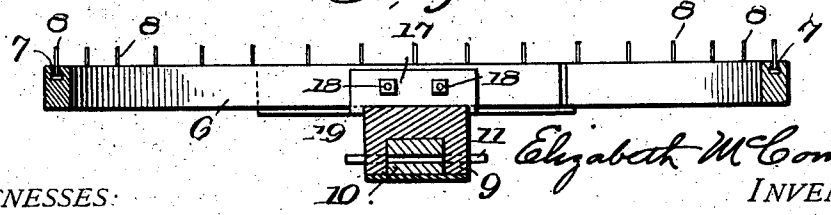


Fig. 3.



WITNESSES:

F. C. Barry

Geo. E. Terwilliger

Elizabeth McCombie

INVENTOR

BY Milo B. Stevens & Co.

Attorneys.

THE NORRIS PETERS CO., WASHINGTON, D. C

UNITED STATES PATENT OFFICE.

ELIZABETH McCOMBIE, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO JAMES McCOMBIE WATT, OF CHICAGO, ILLINOIS.

STRETCHER-FRAME.

No. 840,232. Specification of Letters Patent. Patented Jan. 1, 1907.

Application filed September 17, 1906. Serial No. 334,971.

To all whom it may concern:

Be it known that I, ELIZABETH McCOMBIE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Stretcher-Frames, of which the following is a specification.

This invention is a frame designed for stretching, shaping, or drying pieces of fancy-work, doilies, lacework, embroidery-pieces, and the like, and has for its object to produce an adjustable frame which can be varied in size and otherwise adapted for use, as will hereinafter appear.

In the accompanying drawings, Figure 1 is a plan view of the device. Fig. 2 is a section thereof on the line 2 2 of Fig. 1. Fig. 3 is a section on the line 3 3 of Fig. 1.

Referring specifically to the drawings, 6 indicates a band or hoop of wood or wood reinforced with metal, having in the upper edge thereof an undercut groove 7, in which fit and slide the heads of a series of pins 8. The pins can accordingly be moved along the groove to any desired place. The ends of this hoop are lapped, and the size of the hoop may be varied by increasing or decreasing the lap. To sustain the hoop and hold it in adjusted position, a diameter-bar is used consisting of two sections 9 and 10, the latter of which slides in a groove in the under side of the former, so that the bar is extensible in length and when set as desired is fixed by a pin 11, which may be placed in registering holes, of which there are a series in the respective sections. Near one end the piece 9 has a pair of wheels 12 and 13 on its upper face, and the hoop 6 fits between these wheels and has grooves 14 on opposite sides which receive the edges of the respective wheels, whereby the hoop is held down upon the cross-piece, and yet the wheels allow the angular position of the cross-piece to be varied when it is desired to enlarge or decrease the size of the hoop.

The piece 10 has at the other end a block 15, to which is secured a clamp member 16, having a flange 17, bolted, as at 18, to one end of the hoop 6, and the free end of the hoop fits snugly between said fixed end and a segmental outer flange 19. By special effort the free end of the hoop can be pulled or pushed along to vary the size of the frame.

In use the hoop is set to the proper size to accommodate the work, which is then engaged at its edges over the pins and stretched or dried, as the case may be. The adjustment of the pins allows irregular pieces to be engaged by moving the pins to the desired position on the hoop.

I claim—

1. A stretcher-frame comprising an expansible hoop having lapped ends, and an extensible diametrical bar extending across the hoop and connected to opposite sides thereof.

2. A stretcher-frame comprising a hoop having lapped ends, a diametrical bar formed in extensible sections one of which has a clamp at the end engaging the lapped ends and the other of which is connected to the opposite side of the hoop.

3. A stretcher-frame comprising an expansible hoop having grooves in the sides thereof, and an extensible diametrical bar one end of which is connected to the hoop at one side and the other end of which has a pair of wheels thereon which project into the said grooves in the hoop.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ELIZABETH McCOMBIE.

Witnesses:

JAMES M. WATT,

WM. J. ROBINSON.