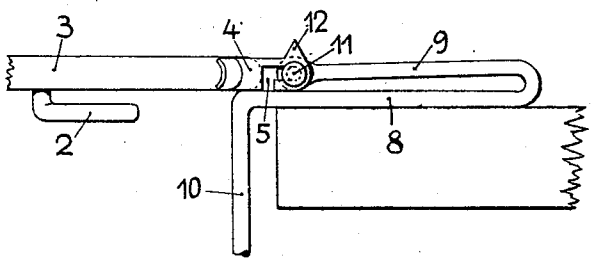
R. PLOCH.

HOLDING DEVICE.

APPLICATION FILED JULY 31, 1914.

1,412,019. Patented Apr. 4, 1922.

Fig. 2



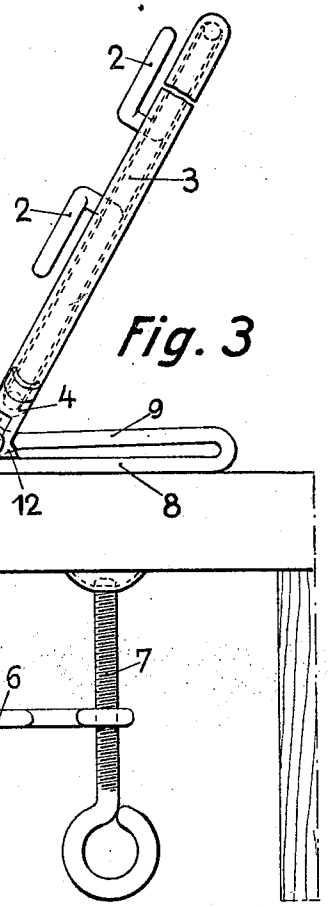
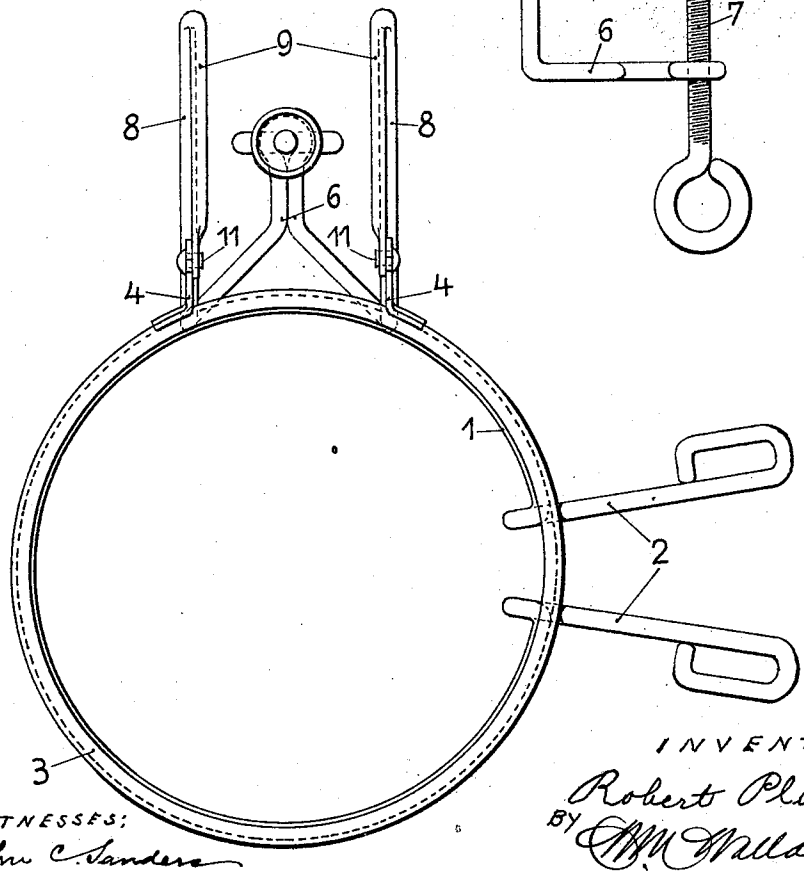


Fig. 3

Fig. 1



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ROBERT PLOCH, OF DRESDEN, GERMANY.

HOLDING DEVICE.

1,412,019. Specification of Letters Patent. Patented Apr. 4, 1922.

Application filed July 31, 1914. Serial No. 854,260.

(GRANTED UNDER THE PROVISIONS OF THE ACT OF MARCH 3, 1921, 41 STAT. L., 1313.)

To all whom it may concern:

Be it known that I, ROBERT PLOCH, a subject of the King of Prussia, residing at Dresden, Germany, have invented new and useful Improvements in Holding Devices, of which the following is a specification.

This invention relates to frames for holding textile or other material in position while being embroidered, darned, mended, painted or otherwise worked, and has for its object to provide an improved construction of frame of this character.

The invention more particularly relates to a frame of the type comprising a resilient and automatically adjustable inner ring which is of such form as to extend around the greater portion of an outer ring into which it is sprung outwards so as to engage firmly with the inner circumference of the outer ring. The resilient inner ring is preferably arranged to be removed and replaced by means of a pair of scissor handles arranged at an angle to the plane of the rings, and the principal object of the present invention is to provide means for removably and adjustably securing a frame of the above or other suitable type to a table or bench for the purpose of facilitating the work.

The invention is illustrated in the accompanying drawings of which Figure 1 is a plan view of a preferred embodiment of the invention, Figures 2 and 3 being views in side elevation illustrating the device in different position to which it may be adjusted.

Referring now to the drawings, the resilient inner ring is indicated at 1 as provided with scissor handles 2, and after the material to be worked has been placed over the ring 1 the latter is reduced in circumference by exerting pressure on the handles 2 and is then with the material inserted within the outer ring 3, the handles 2 being subsequently released so as to permit the ring 1 to expand and firmly grip the material between the rings 1 and 3. The outer ring 3 is provided with two projecting arms or lugs 4 rigidly secured thereto and each provided with a longitudinal slot 5 parallel to the plane of the rings and having an opening in one side thereof adjacent to the ring 3 as clearly shown in Figure 3. A clamping device 6 is provided adapted to be secured to a table or bench by means of a thumb screw 7, the clamping device 6 being provided with an upper pair of arms 8 which engage with the upper surface of the table or bench and are continued in the reverse direction as indicated at 9 so as to extend above the arms 8 to within a short distance of the vertical arm 10 of the clamping device. A pair of pin pivots 11 are provided for connecting the lugs 4 to the extremities of the portion 9 of the arms, the pivots 11 normally lying at one end of the slots 5 into which they are introduced through the opening in one side of these slots above referred to. The lugs or projections 4 are provided with stops 12 adapted to engage with the upper surface of the arms 8 so as to support the device in an inclined position as shown in Figure 3. By tilting the frame forward the latter can be brought into the horizontal position shown in Figure 2 when desired, in which position the frame is supported by reason of the fact that the ring 3 rests upon the upper surfaces of the outer ends of the members 8, as will be understood from a consideration of Figure 1. It will be observed that as the outer ring 3 of the frame is connected by means of its lugs 4 to the upper portion 9 of the arms 8, any tendency to distort the arms 8 is thereby avoided. The clamping device 6 can therefore be composed of relatively light wire or other suitable material without danger of deformation.

It will be seen that the improved device provides for a convenient adjustment of the frame to any desired position, enabling work to be executed on either the back or front of the material, and the method of securing the frame to the clamping device enables the frame to be readily removed and employed either for hand or machine work. For instance the frame can be laid flat on the table with its handles in the same horizontal plane as the ring and be held in a suitable position for embroidering by hand by means of a weight such as a book or the like.

It will be understood that the invention is not limited to the particular construction and arrangement of the parts and various modifications may be made without exceeding the scope of the invention.

What I claim is:—

An embroidery frame comprising a rigid outer ring, an inner expansible ring, lugs on

said outer ring having slots with openings thereto on one side of said lugs, a clamping device having upper arms thereon, pins carried by the upper arms of said clamping device adapted to engage said slots, said pins being located back from the edge of the clamp whereby the lugs may rest on the upper arms of said clamp co-acting with the pins to maintain the rings in horizontal position, and stops on said lugs on the side opposite to that having the opening to the slots, said stops being adapted to engage the upper arms of the clamp to hold the rings in an inclined position.

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

ROBERT PLOCH.

Witnesses:
LOUIS P. ALTZ,
ERNST BLEIST.