April 9, 1935. J. BECHHOFER 1,997,539

WEAVING FRAME

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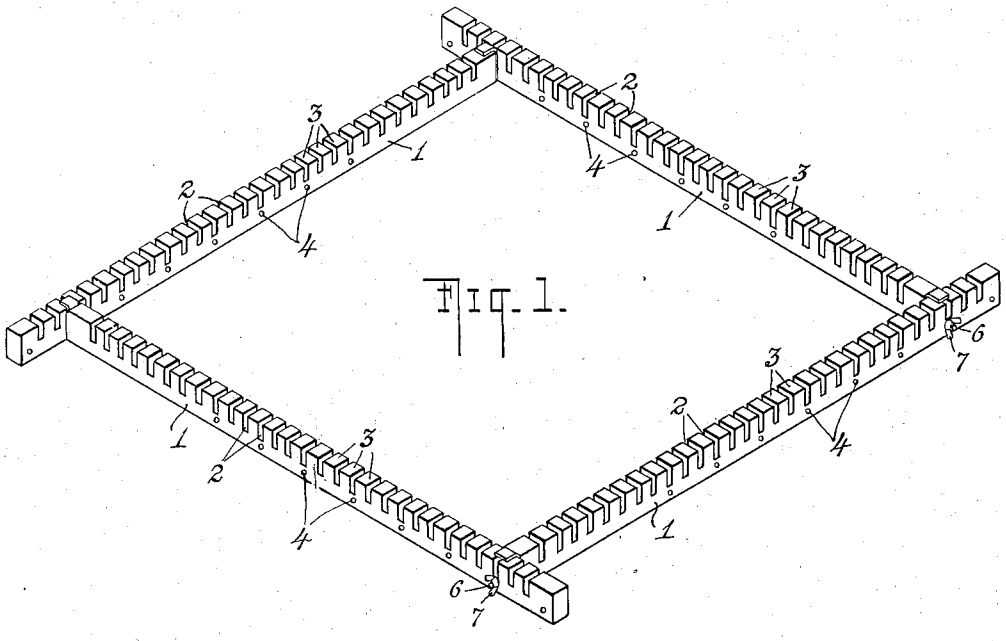


Fig. 1.

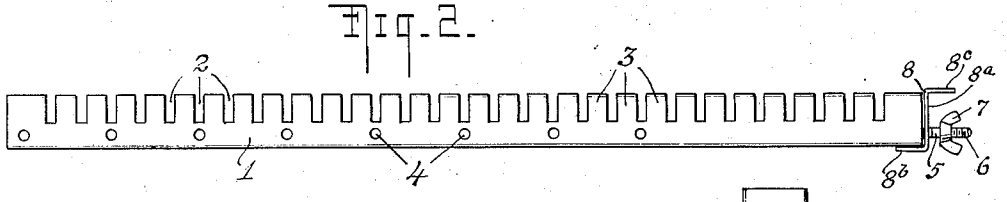


Fig. 2.

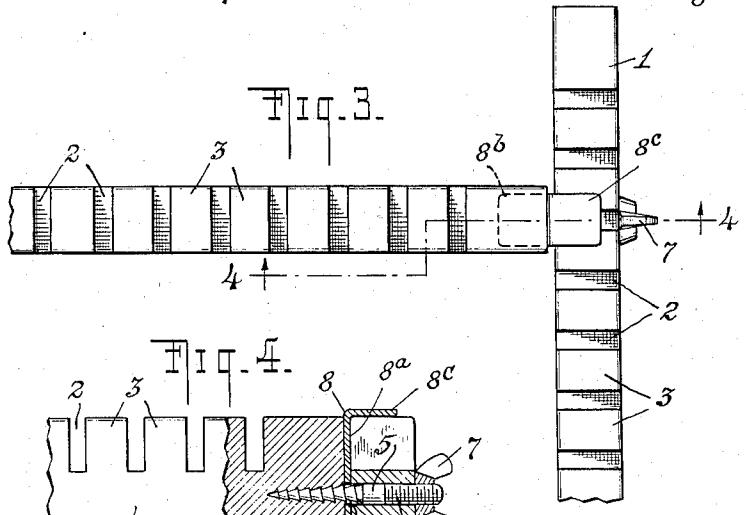


Fig. 3.

Fig. 4.

WITNESS

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WEAVING FRAME

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3 Claims. (Cl. 28—15)

The object of this invention is to provide a weaving frame provided with adjustable features in order that the user thereof may extend or diminish the size of the frame to various sizes in order that fabrics of different sizes may be woven thereon.

Weaving frames of the "knock-down" character have heretofore been provided having adjustable features but such frames have been found objectionable for various reasons. Some types of these frames were provided with inter-engaging notches but were objectionable in that, if the frame were dropped, or pressure brought to bear against one of the individual elements of the frame, during manipulation, the frame would collapse. It was also found that due to the shrinkage of the material of which the frame was made, the parts would become loose and the frame members disengage and the frame lose its shape. Other types of devices with respect to their adjustable features were objectionable in that the individual members were not locked together and in order to adjust the frame to new positions the spacing of the members had to be carefully measured in order to square the frame.

The present invention overcomes the foregoing objections and permits the frame to be adjusted to different sizes and locks the frame members in position against movement, provides for compensating for shrinkage of the frame material and ensures that the frame members will be retained in their adjusted position under all conditions.

Fig. 1 shows a perspective view of the frame in assembled position; Fig. 2 is a side elevation of one of the frame members; Fig. 3 is an enlarged top view of two of the frame members in assembled position, and Fig. 4 is a sectional view on the line 4—4 of Fig. 3.

The frame consists of four separable like members 1. Each member, preferably constructed of wood, is provided with a series of slots 2 at the top edge thereof, thereby providing a multiplicity of upstanding lugs 3 to which threads are secured for the purpose of weaving. Each frame member 1 is provided with a series of holes 4 passing entirely through the lower edge of the frame member below the base of the slots. One end of each frame member is provided with a wood screw 5 having a threaded post portion 6 extending beyond the end thereof a distance slightly in excess of the thickness of each frame member. A wing nut 7 is adapted to screw upon the threaded post 6 of the wood screw. Z-shaped locking members 8 are each provided with a hole 9 so that each locking member 8 may be threaded over the screw threaded extension 6.

In assembling the device, the user, after determining the desired size to which the frame is to be formed, positions one of the locking members 8 over each of the screw threaded posts 6 and then passes the extension 6 through the nearest hole 4 in the adjoining frame member 1 corresponding to the determined size of the frame. Each locking member will assume a position as shown in Fig. 4 with its upright portion 8*a* against the end surface of one frame member, with its lower leg 8*b* against the under surface of the frame member and its upper leg 8*c* over the top edge of the adjoining frame member 1. The wing nut 7 is then screwed over the threaded post 6, and is drawn tightly against the side surface of the frame member against which it bears, thereby forcing adjoining frame members together and securing the locking member between two frame members with the legs 8*b* and 8*c* bearing against surfaces of the frame members, whereby the frame members are secured in position and locked against all possible rotation and rigidly, without the possibility of the frame members becoming loose or moving out of position.

I claim:

1. In a weaving frame, in combination, a multiplicity of apertures in a frame member, a post, carried by one of said frame members, adapted to pass through said apertures, a locking member, said locking member being adapted to engage a surface of each of two adjoining frame members and means cooperating with said post to draw adjoining frame members together and retain the locking member in position.

2. In a weaving frame, in combination, a multiplicity of frame members, a post, carried by one of said frame members, a locking member, said locking member being substantially Z-shaped, the upright portion of the locking member fitting over said post with its body portion between an end of one of said frame members and a side of an adjoining frame member, one of the legs of said locking member passing over the top surface of one of said frame members and under the underside of the adjoining frame member, and means cooperating with said post to draw adjoining frame members together and retain the locking member in position.

3. A weaving frame, in combination, a multiplicity of frame members, having a series of slots and upstanding lugs formed in one edge thereof, locking members engaging the frame on the surface opposite the surface in which said slots and lugs are formed, each locking member having a portion engaging a surface of the next adjoining frame member and inter-engaging screw-threaded means adapted to exert tension on said locking members to secure adjoining frame members together securely and in predetermined position.

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