

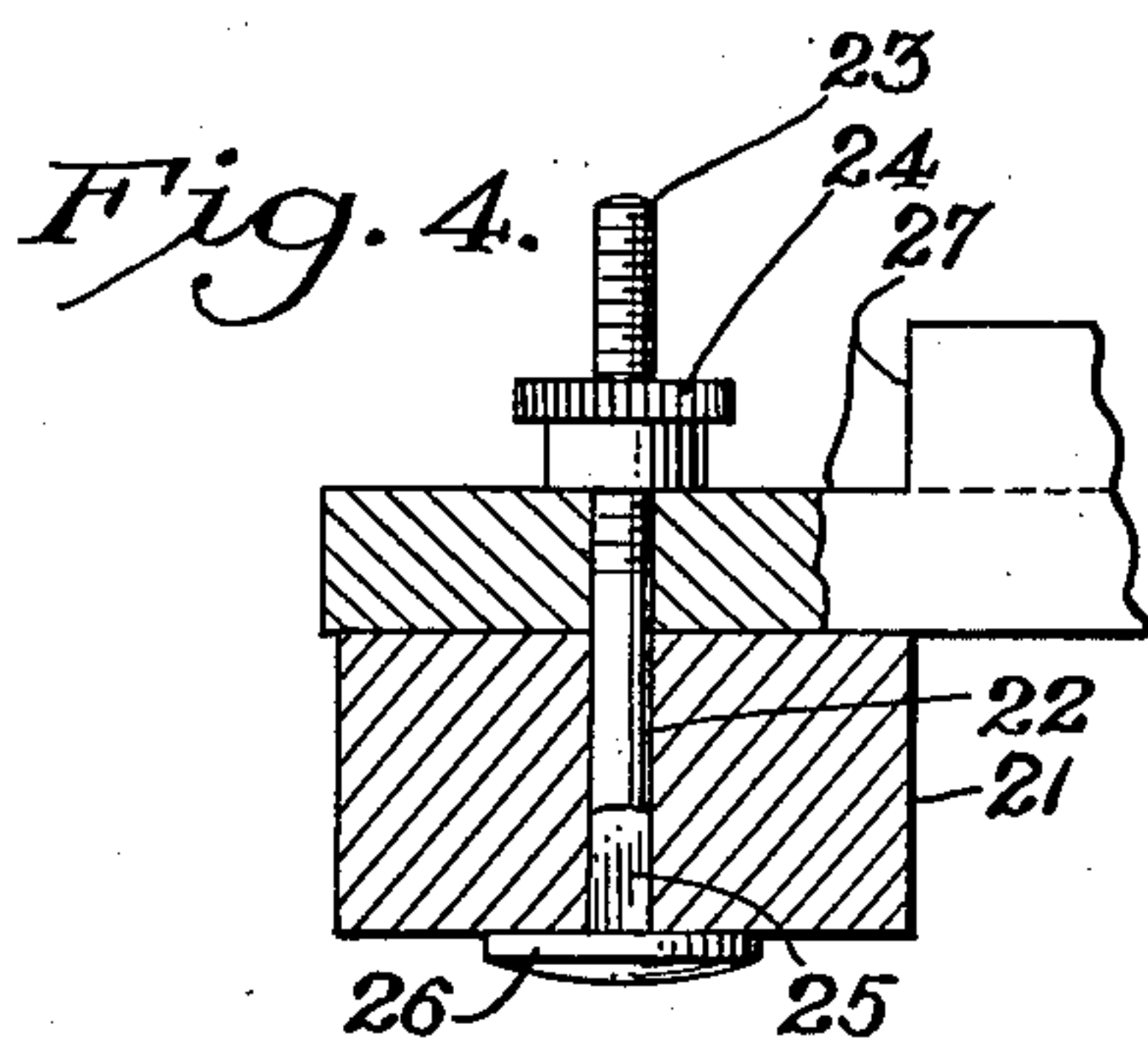
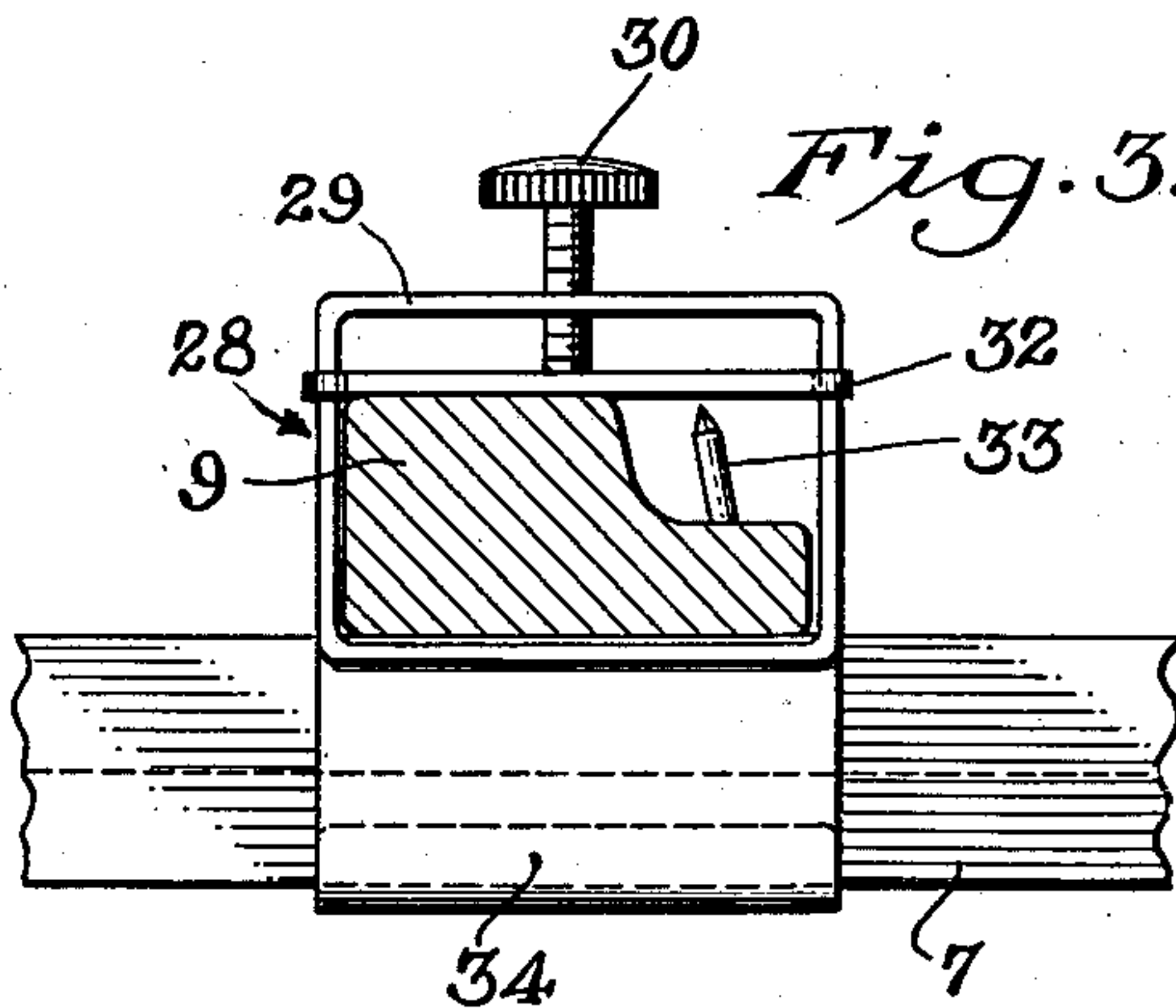
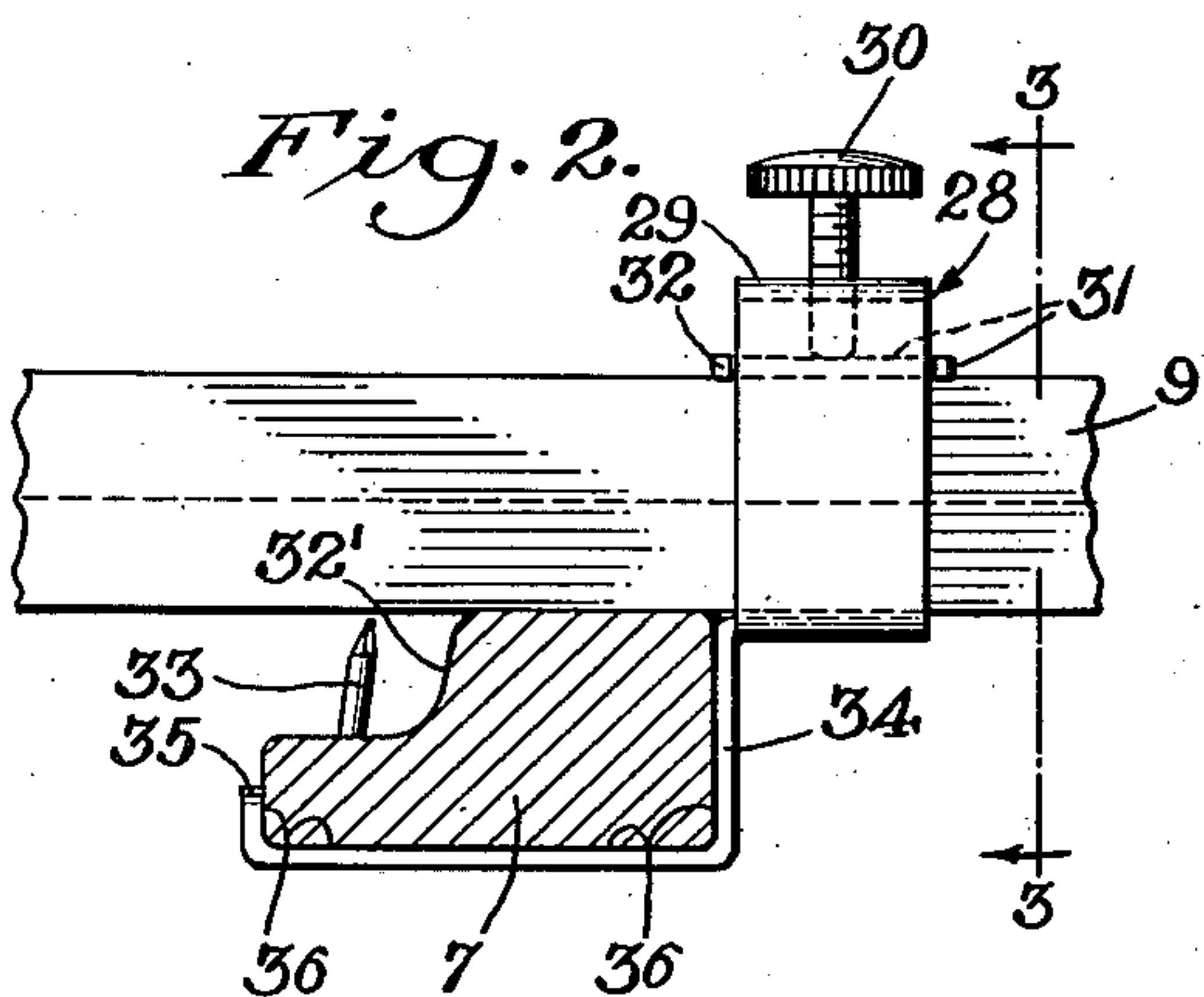
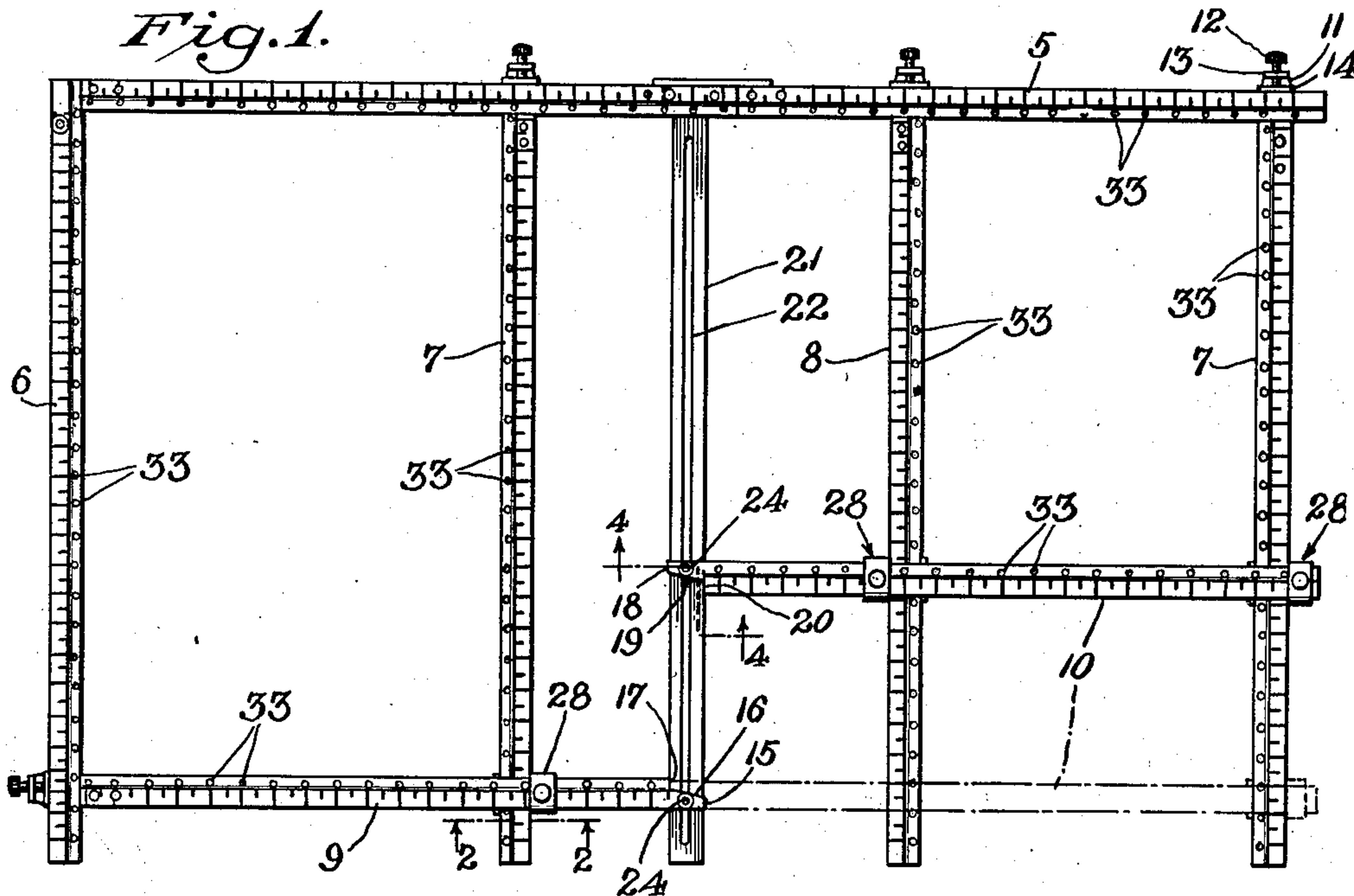
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CURTAIN STRETCHER

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CURTAIN STRETCHER

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5 Claims. (Cl. 45—24)

This invention relates to improvements in curtain stretchers or devices employed for stretching and drying materials that have been treated in a solution and require subsequent stretching and drying.

One of the objects of my invention is to provide means whereby more than one item may be stretched on a single stretcher frame-work.

Another object of my invention is to provide simple clamping means which will facilitate making adjustments of the curtain stretching elements comprising my invention.

Another object of my invention is to provide a stretcher which is simple in construction, practical and efficient in its operation, and one that is comprised of such simple elemental structure that it will lend itself readily to production economically in quantities.

Other objects, features and advantages resident in my invention will become apparent from an examination of the accompanying drawing and the ensuing description in which like symbols are used to designate like parts, and in which:

Fig. 1 represents a front elevational view of the composite elemental structure comprising my invention.

Fig. 2 is a cross-sectional view taken on the line 2—2 of Figure 1.

Fig. 3 is a cross-sectional view taken on the line 3—3 of Figure 2.

Fig. 4 is a staggered cross-sectional view taken on the line 4—4 of Figure 1.

Referring to the drawing, more particularly, to Figure 1, my invention is comprised of a horizontal beam 5, to which is secured a vertical beam 6, and an outer vertical beam 7 which is shown equipped with slidably adjustable fittings, the said outer beam 7, however, may be rigidly connected to the terminus of beam or bar 5 in like manner as the beam 6.

The frame-work comprised of the beams 5, 6 and 7 is further equipped with beams 9 and 10 which are cut out as indicated at 15, 16 and 17 in order to match the cut-out portions 18, 19 and 20 so that the bars 9 and 10 can be co-extensibly aligned as indicated by the dotted line in Figure 1, for purposes to be hereinafter elucidated.

The frame-work is equipped, preferably, with a reinforcement strut at the center thereof designated 21, having a slotted portion 22, adapted to receive the threaded bolts 23, having a flat head 26, and a portion of the shank 22 square in section as indicated at 25, in order to prevent ro-

tation of the bolts within the slot 22 when the knob 24 is tightened or loosened.

The horizontal complementary beams 9 and 10 are rabbeted as shown at 27 in order that the top surface of the knob 24 will occupy at all times a position below the effective working surface or plane within which the curtains are to be stretched and thus not interfere with the curtain or textile material which may be stretched on the frame-work for drying.

I also provide an intermediate vertical bar 7 and another intermediate vertical bar 8 similar thereto except that the pointed pin elements 33 to which the textile or curtains are attached, are on opposite edges thereof. All of the beams, namely, 5, 6, 7, 8, 9 and 10 are concavely rabbeted thruout their entire length as at 32' in order to provide a lower supporting surface for the pins 33. The end rod 7 and the intermediate rod 7 are exactly alike. The said rods 7 and 8 are slidably and adjustably secured to the upper beam or horizontal bar 5 by means of a clamp 11 which is fastened under the bars 7 and 8 and have a projecting lug 13 extending from the clamp 11, the said lug being suitably threaded in order to receive the clamp screw 12 which bears on the clamping plate 14 so as not to mar the bar 5.

The relative adjustment of the bars 7 and 8 with respect to the horizontal complementary bars 9 and 10 is effected thru the special clamping means illustrated in Figures 2 and 3 which comprise a unit, generally, designated 28 formed of a tubular sectional portion 29, being larger in cross-section than the thickness of the beam 9 as indicated, and being provided with a clamping plate 31 which has extensions 32 so that the said clamping plate 31 will not be displaced with respect to the tubular section 29.

The clamp screw 30 aids in effecting a binding pressure thru the plate 31 on the beam 9 which rests on the beam 7, the said beam 7 being supported in a U shaped extension 34, having a short leg 35 merely to prevent the said beam from lateral displacement, thus when the clamp screw 30 is brought down to bear on the plate 31, a clamping action is effective on the beam 9 with respect to the beam 7, thus holding the two rigidly and frictionally together. The beam 7 is lodged within the recess 36 and the beam 9 being held in place by the tubular structure 29, thus beam 8 is secured slidably and adjustably to beam 10 permitting beams 9 and 10 to be moved towards beam 5, and permitting beams 7 and 8 to be moved toward or away from each other and toward or away from the beam 6.

As at present illustrated, the curtain supporting area provided by the setting shown in Figure 1, is comprised of the area confined within the upper portion of the beam 5, and the beam 9 and within the confines of the intermediate beam 7 and the vertical beam 6. The beam 10 as positioned confines a stretching area within the space limited to the upper end portion of the beam 5, the beam 10, the outer beam 7, and the beam 8. It can be seen, thus, that I provide a curtain stretching device of greater utility and efficiency, whereas, if the present or standard curtain stretching frame were to be utilized and the frame were set to support a curtain within the confines of the beams 5, 9, 6 and 7, the remainder of the frame structure would occupy considerable space and would not be utilized. With my particular arrangement, another curtain of the same size or of a smaller or larger size could be fastened within the area to the right of the middle supporting strut 21 as heretofore elucidated.

It can be seen that with my improvement, the framework may be used to stretch a large curtain by aligning beams 9 and 10 and removing the intermediate beams 7 and 8, thus making available the maximum space confined between the beams 5, 6, 9 and 10, and outer beam 7. By the use of intermediate beams 7 and 8, an article may be stretched and supported on any fractional area within the confines of beams 5, 6 and intermediate beams 7 and 9, and another article may be supported and stretched on any fractional area of the area remaining between the confines of beams 5, 8, outer beam 7 and beam 10. The frame-work hence makes available a wide range of plural curtain stretching areas not provided by the present form of curtain stretchers on the market, making it possible to mount more than one curtain on a single frame at a time.

To adjust either of the horizontal bars 9 or 10 it is merely necessary to loosen the respective clamp screws 12, 24 and 30, make the adjustment by sliding the bars 9 and 10 toward or away from bar 5 and clamp when the desired setting is reached. To adjust the intermediate bars 7 or the bar 8, the loosening of the respective clamp screws 12 and 30 retaining the said members, sending the members 7 and 8 to the desired position and clamping the screws 12 and 30 in binding engagement. The bars are suitably graduated to enable the operator to set them in proper position most conveniently.

I believe, I have herein indicated a novel arrangement of parts which together with the foregoing description clearly and succinctly reveal the nature and objects as well as the structure comprising my invention. Altho, it is susceptible of many alterations, modifications and improvements, I hereby reserve all rights to such alterations, modifications and improvements that come within the scope and spirit of my invention, and within the purview of the accompanying drawing and the foregoing description. My invention is to be limited to the appended claims.

Having thus described and revealed my invention what I claim as novel and desire to secure by Letters Patent is:

1. A curtain stretcher comprising, a top bar member, two vertical bar members one being rigidly and the other slidably and adjustably secured at each end of said top bar member, a vertical reinforcing strut member mounted substantially at the midpoint of said top bar member, and two complementary bar members slidably and adjustably secured to the said vertical bar members and independently secured to the said reinforcing strut member.

2. A curtain stretcher comprising, a top bar member, two vertical bar members one being rigidly and the other slidably and adjustably secured at each end of said top bar member, a vertical reinforcing strut member mounted substantially at the midpoint of said top bar member, and two complementary bar members slidably and adjustably secured to the said vertical bar members and independently secured to the said reinforcing strut member, the said complementary bar members having adjoining notched ends adapted to align the said complementary bar members into one collinear structure.

3. A curtain stretcher comprising, a top bar member, two vertical bar members one being rigidly and the other slidably and adjustably secured at each end of said top bar member, a vertical reinforcing strut member mounted substantially at the midpoint of said top bar member, two complementary bar members slidably and adjustably secured to the said vertical bar members and independently secured to the said reinforcing strut member, and one intermediate bar member slidably and adjustably secured to the said top bar member and also to either of the said two complementary bar members.

4. A curtain stretcher comprising, a top bar member, two vertical bar members secured at each end of said top bar member, a vertical reinforcing strut member mounted substantially at the midpoint of said top bar member, two complementary bar members each slidably and adjustably secured to the said vertical bar members and the said reinforcing strut member, and two intermediate bar members each slidably and adjustably secured to the said top bar member and to one of said complementary bar members.

5. A curtain stretcher comprising, a top bar member, two vertical bar members one rigidly and the other slidably and adjustably secured at each end of said top bar member, a vertical reinforcing strut member mounted substantially at the midpoint of said top bar member, two complementary bar members slidably and adjustably secured to the said vertical bar members and independently secured to the said reinforcing strut member, and clamping means adapted to maintain in contiguous engaging relationship the said intermediate bar member and either of the said complementary bar members.

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