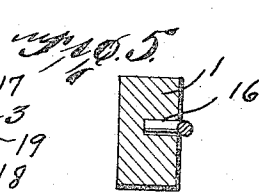
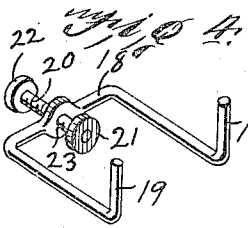
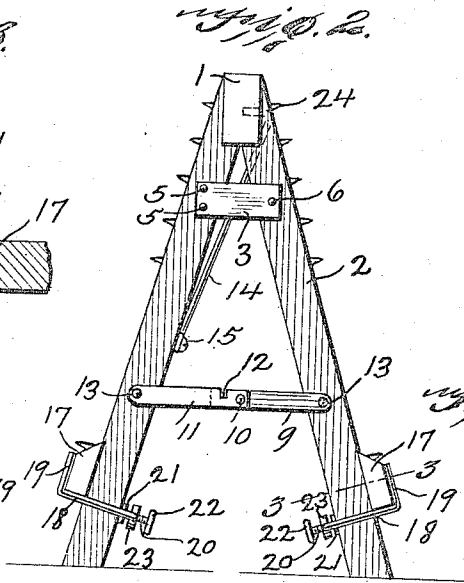
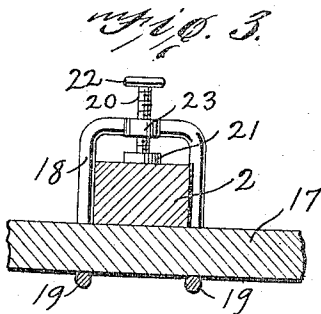
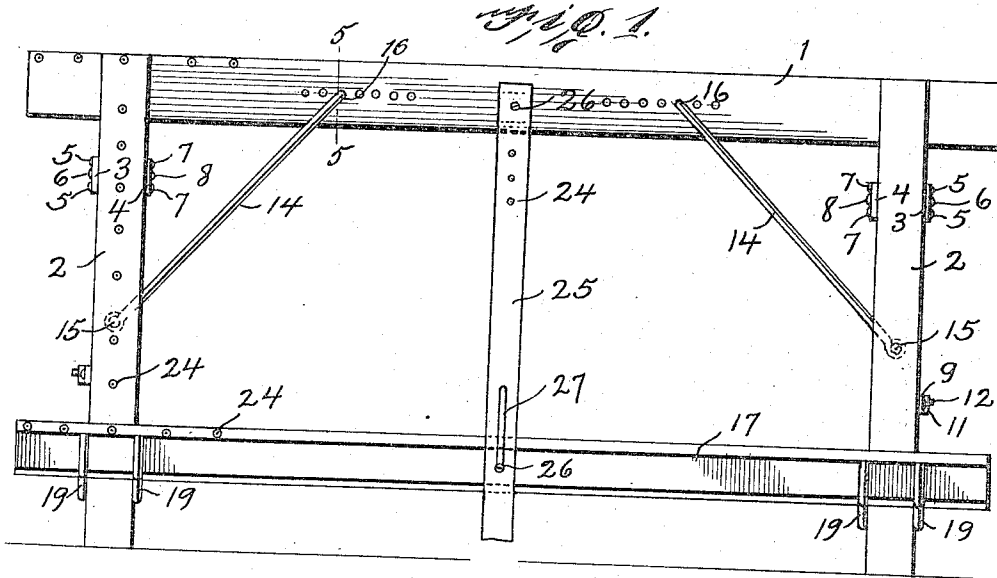


A. W. KNITTEL.  
CURTAIN STRETCHER.  
APPLICATION FILED FEB. 7, 1916.

1,229,621.

Patented June 12, 1917.



Witnesses

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his Attorney

# UNITED STATES PATENT OFFICE.

ANDREW W. KNITTEL, OF NEW CASTLE, PENNSYLVANIA.

## CURTAIN-STRETCHER.

1,229,621.

Specification of Letters Patent. Patented June 12, 1917.

Application filed February 7, 1916. Serial No. 76,529.

*To all whom it may concern:*

Be it known that I, ANDREW W. KNITTEL, a citizen of the United States, residing at New Castle, in the county of Lawrence and State of Pennsylvania, have invented certain new and useful Improvements in Curtain-Stretchers, of which the following is a specification.

This invention relates to a curtain stretcher.

One object of the invention is to provide a stretcher easy of operation, inexpensive, and so devised as to stretch two curtains at the same time.

A further object of the invention is in a novel manner of folding the stretcher.

A further object is to construct and arrange the various parts of the stretcher so as to provide means of adjusting the frame to fit various sized curtains.

With the above and other objects in view as will appear as the nature of the invention is better understood, I have provided a curtain stretcher easy of operation and adjustment which is more specifically hereinafter described and claimed.

In the accompanying drawings forming a part of this specification, and in which like characters of reference indicate corresponding parts:—

Figure 1 is a view in side elevation.

Fig. 2 is a view showing end elevation.

Fig. 3 is an enlarged detail sectional view of parts shown in Fig. 2 by line 3—3.

Fig. 4 is an enlarged view of clamp.

Fig. 5 is a detail sectional view of portion of the brace rod and frame portion, the section being taken on the line 5—5, Fig. 1.

Referring to the drawings, 1 designates the top frame part which is supported by the legs 2. The legs 2 are formed at the upper end providing an L-shaped seat for frame member 1. See Fig. 2. The legs 2 are held apart at the upper end by means of a plate 3. This plate is held securely in position by screws 5 and screw 6. A companion plate 4 on the inside of legs 2 opposite plate 3 is held in position by screws 7 and screw 8. Near the base of legs 2 and held in position by clamp 18 are frame members 17. Frame members 17 are formed with beveled edge. See Fig. 2.

The clamp 18 consists of a U-shaped body having the ends 19 turned at right angles. In the central portion of this clamp is a plate shaped portion having a threaded

opening 23. Through this threaded opening 23 a threaded rod 20 is turned. The rod 20 is provided with a head 22 which is used when it is desired to loosen or tighten the clamp 18. At the interior end of rod 20 is fastened a clamping plate 21. See Fig. 3.

It will readily be seen that the dimensions of the frame may be easily adjusted to suit the size of the curtain or curtains to be stretched. By pushing upwardly, the locking device consisting of two strips 9 and 11 which are securely fastened to the legs by screws 13, causes the hinge 10 to turn and releases the upper frame member 1 allowing the frame to fold together.

It will readily be seen that by means of plates 3 and 4 the upper ends of the legs 2 are spaced apart and as the locking device is pushed upwardly the screws 6 and 8 in plates 3 and 4 form a pivot upon which the leg members 2 turn, thereby releasing the upper frame member 1. By loosening the clamps 18 the legs may be slid inwardly along the frame part 1 and along the lower frame members 17.

When the desired position has been secured the brace rod 14 is slipped into socket 16. See Fig. 5. By pushing downwardly upon the locking device, the member 9 of the same, having a lug 12, fits into a notch in part 11, thereby allowing the hinge of the locking device to turn until the members 9 and 11 are longitudinally positioned.

The pins 24 are securely fastened in the outer surfaces of legs 2 and the upper edges of frame member 1 and into the beveled portion of frame members 17 and strip 25. The curtain or curtains are stretched upon pins 24.

When it is desired to stretch a large curtain and one or two smaller curtains at the same time, the same may be accomplished by attaching the smaller curtains to the pins 24 on strip 25 and frame members 1, 2 and 17. It will readily be seen that the lower member 17 of frame may be raised or lowered by releasing clamps 18, the screw 26 turned into part of frame 17 will slide within an elongated slot 27. This strip 25 is attached to but one side of the stretching apparatus. The large curtain may be stretched on the opposite side from the side upon which the strip 25 is attached.

This strip does not prevent the stretching of two large curtains at the same time for a large curtain may be placed on the side

having the strip 25 as well as if the strip were not thereunto attached.

What I claim is:—

1. In a curtain stretcher the combination  
5 of a frame member provided with sockets  
and supported by four legs, plates attached  
to the upper portions of the legs securely  
fastened at one end by two screws and at  
10 the other end by one screw, thereby forming  
a pivot for the leg when the frame is folded  
or when the stretcher is being set up, a lock-  
ing device fastened to the legs near the base  
of the legs, brace rods hinged on the inner  
15 side of the legs and formed to fit into the  
sockets along the side of the upper portion  
of the frame, clamps for holding lower mem-  
bers of the frame in position, the lower  
frame members provided with a beveled  
20 edge carrying pins along said beveled edge,  
said lower frame members slidably ar-  
ranged upon the outer portion of legs, the  
legs being slidably arranged in connection  
with upper frame member, a strip carrying  
25 pins fastened at the center of the upper  
frame member and also at the center of the  
lower frame member, said strip provided

with an elongated slot at its lower end, an  
attaching member formed to slide within  
said slot when the lower member of frame  
is either lowered or raised.

2. In a curtain stretcher the combination  
30 of a beam member provided with sockets  
and supported by four legs said legs con-  
structed in pairs, companion plates posi-  
tioned near the upper end of said legs, said  
35 plates being fastened at one end by two  
screws and at the other by one screw, form-  
ing a pivot for legs when the frame is fold-  
ed or when the stretcher is set up for opera-  
tion, brace rods fastened to the inner side  
40 of one of the pair of legs in such a manner  
as to form a pivot, the other ends of said  
rods being L-shaped and adapted to fit into  
the sockets along the side of above men-  
45 tioned beam as set forth for the purpose  
specified.

In testimony whereof I affix my signature  
in the presence of two witnesses.

ANDREW W. KNITTEL.

Witnesses:

ALBERT E. DUFFIELD,  
JERRY SEAMANS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,  
Washington, D. C."