

J. H. WISE.
CURTAIN STRETCHER.
APPLICATION FILED FEB. 5, 1912.

1,044,720.

Patented Nov. 19, 1912.

2 SHEETS—SHEET 1.

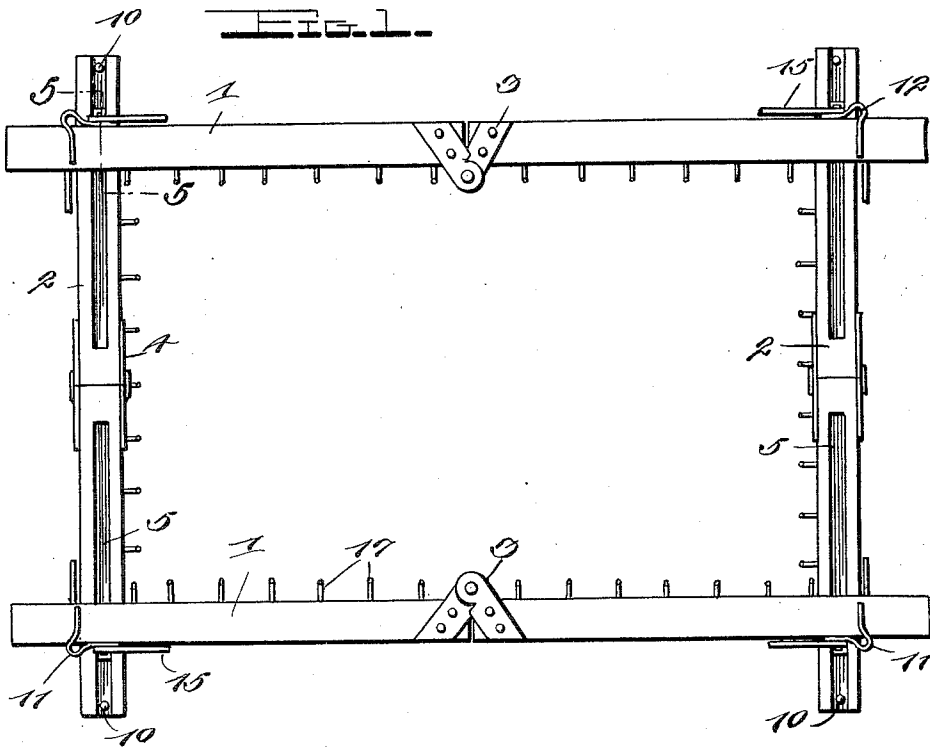


Fig. 4.

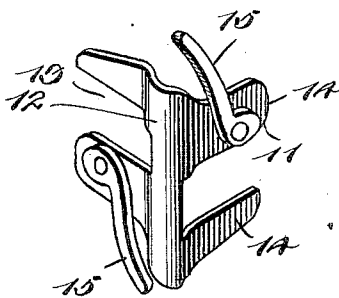
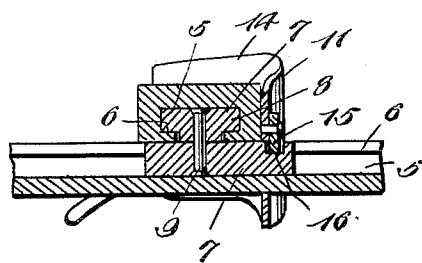


Fig. 5.



Inventor

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Witnesses

Chas. L. Gristauer
A. B. Norton.

By

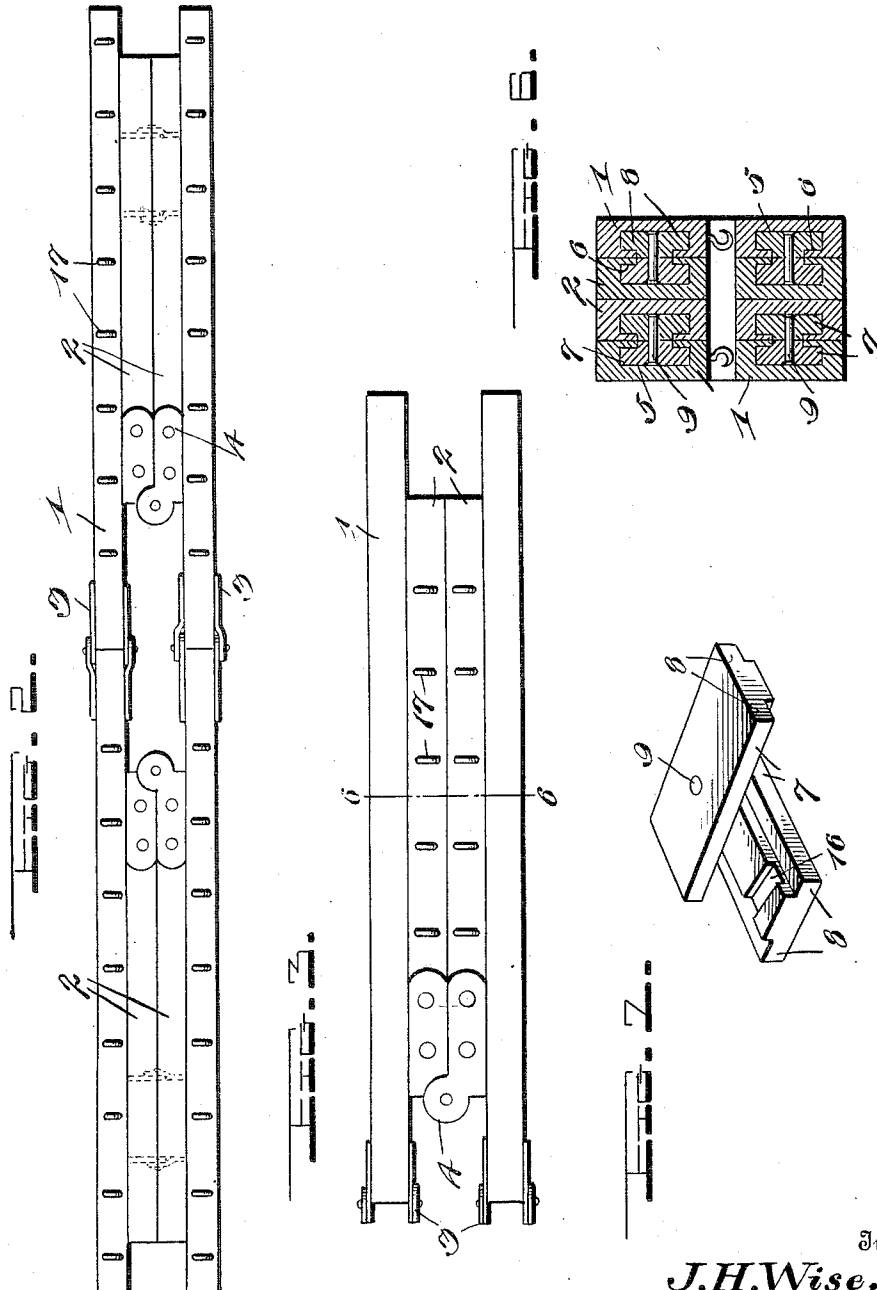
Watson E. Coleman,
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2 SHEETS—SHEET 2.



Witnesses

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JOHN H. WISE, OF ELLWOOD CITY, PENNSYLVANIA.

CURTAIN-STRETCHER.

1,044,720.

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To all whom it may concern:

Be it known that I, JOHN H. WISE, a citizen of the United States, residing at Ellwood City, 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, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in curtain stretchers and has for its object to provide a novel curtain stretching frame upon which lace curtains, draperies and fabrics can be mounted for bleaching drying and repairing.

Another object of the invention is to provide a curtain stretching frame which can be quickly folded up so as to occupy a very small space when not in use and can be readily set up and securely clamped when it is desired to use the same.

A further object of the invention is to provide a device of this character which will possess advantages in points of efficiency and durability, is inexpensive of manufacture and at the same time is simple in construction and operation.

With the above and other objects in view, the invention consists in the novel features of construction and the combination and arrangement of parts hereinafter more fully described, pointed out in the claims and shown in the accompanying drawings, in which,

Figure 1 is a top plan view showing the stretcher set up ready for use; Fig. 2 is a plan view showing the same partially folded; Fig. 3 is a side elevation showing the frame folded; Fig. 4 is a detail perspective view of one of the clamping members; Fig. 5 is a sectional view on the line 5-5 of Fig. 1; Fig. 6 is a sectional view on the line 6-6 of Fig. 3; and Fig. 7 is a perspective view of one pair of the sliding blocks.

Referring more particularly to the drawings, 1 indicates the sectional side bars and 2 indicates the sectional end bars. The sectional side bars 1 are connected by means of the hinges 3, and the end bars are connected by the hinges 4. Said side bars being hinged to allow the inner ends of the sections to fold inwardly, and the end bars are hinged to allow the inner ends of the sections to fold downwardly. The side bars 1 and the end bars 2 are provided on one side thereof with the grooves 5, having the undercut side walls 6. Sliding block members 7

are provided and adapted to be disposed within said grooves, said blocks being provided with the side flanges 8 adapted to slide in the undercut side walls 6. Two of these blocks are provided at each corner of the frame, one slidably mounted in the side bars, and one slidably mounted in the end bars, the two blocks in each corner of the frame being pivotally secured together by means of the pivot pin 9. Headed stop pins 10 are arranged in the outer ends of the grooves 5 to prevent the blocks 7 from sliding all the way out.

Clamping members 11 are provided and adapted to engage the frame at each corner and clamp the bars against sliding movement. These clamping members are stamped from sheet metal or other suitable material into the substantially rectangular plates 12 which are bent at right angles and provided with the recesses 13 to form the spaced arms 14. These arms 14 are to be disposed upon the upper and lower sides of the bars 1 and 2.

Cam members 15 are pivotally mounted on the arms 14 and adapted to engage in the recess 16 formed in one end of the sliding blocks 7 to hold the bars against sliding movement. These cam members 15 are arranged on the plates 12 so that one cam engages the blocks carried by the side bars and the other cam engages the blocks carried by the end bars. Hooks 17 are secured in the inner edge of the bars 1 and 2 whereby the curtain or other fabric can be easily secured to the frame. It will be obvious that this frame can be readily adjusted to various sizes of curtains and other fabrics which may be readily secured to the frame. In folding the frame, the end pieces are folded so that the side bars lie parallel and the end pieces are then folded in between the side bars, the side bars are then folded so that the frame will be entirely folded as shown in Fig. 3. To unfold the frame and set the same up ready for use the operation of folding is reversed.

From the above description taken in connection with the accompanying drawings, it will be seen that I have provided a simple and efficient frame which is inexpensive of manufacture and at the same time is simple in construction and operation.

While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of construction and in the proportions may

be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope thereof.

5 Having thus described this invention, what is claimed is:—

1. In a device of the character described, the combination of a frame comprising side and end bars pivotally connected and adapted for longitudinal and lateral movement, clamping members adapted to be applied to said bars to hold the same against movement, said clamping members each comprising a substantially rectangular plate bent at right angles and provided with recesses, spaced arms formed by said recesses adapted to be disposed upon each side of the bars, and cam members pivotally connected to said arms and adapted to engage with the bars to hold the same against movement.

2. In a device of the character described, the combination of a frame comprising side and end bars, sliding blocks carried by said side and end bars, the blocks carried by said end bars being pivotally connected to the blocks carried by the side bars to permit longitudinal and lateral movement of said bars.

3. In a device of the character described, the combination of a frame comprising sectional side and end bars, the sections of each of said bars being hingedly connected and adapted to close in a compact form, sliding blocks carried by the side and end bars, the blocks carried by the end bars being pivotally connected to the blocks carried by the side bars to permit longitudinal and lateral movement of said bars, and means for holding the same in an adjusted position.

4. In a device of the character described, the combination of a frame comprising side and end bars, said bars being provided with longitudinal grooves having undercut side walls, sliding blocks disposed in said grooves, flanges formed on the sides of said blocks and disposed in the undercut side walls, the blocks carried by the end bars being pivotally connected to the blocks carried by the side bars to permit longitudinal and lateral adjustment of said bars, and means for holding said bars in an adjusted position.

5. In a device of the character described, the combination of a frame comprising side and end bars, sliding blocks carried by said side and end bars, the blocks carried by said end bars being pivotally connected to the blocks carried by the side bars to permit longitudinal and lateral adjustment of said bars, and clamping members detachably secured to said bars to hold the same in an adjusted position.

6. In a device of the character described, the combination of a frame comprising sectional side and end bars, the sections of each of said bars being hingedly connected and adapted to fold into compact form, said side and end bars being provided with longitudinal grooves, having undercut side walls, sliding blocks disposed in said grooves, flanges formed on the side edges of said blocks and disposed in said undercut side walls, the blocks carried by said end bars being pivotally connected to the blocks carried by the side bars to permit longitudinal and lateral adjustment of said bars, and means for holding said bars in an adjusted position.

7. In a device of the character described, the combination of a frame comprising side and end bars, sliding blocks carried by said bars, the blocks carried by said end bars being pivotally connected to the blocks carried by the side bars to permit longitudinal and lateral movement of said bars, clamping members adapted to be applied to said bars to hold the same against movement, said clamping members each comprising a substantially rectangular plate bent at right angles and provided with recesses spaced arms formed by said recesses, adapted to be disposed upon each side of said bars, cam members pivotally connected to said arms, and said sliding blocks having recesses formed in one of their ends to receive said cam members.

8. In a device of the character described, the combination of a frame comprising side and end bars, said bars being provided with longitudinal grooves having undercut side walls, sliding blocks disposed in said grooves, flanges formed on the sides of said blocks and disposed in the undercut side walls, the blocks carried by the end bars being pivotally connected to the blocks carried by the side bars to permit longitudinal and lateral adjustment of said bars, clamping members adapted to be applied to said bars to hold the same against movement, said clamping members each comprising a substantially rectangular plate bent at right angles and provided with recesses, spaced arms formed by said recesses adapted to be disposed upon each side of the bars, cam members pivotally secured to said arms, and said sliding blocks having recesses formed in one of their ends to receive said cam members.

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

JOHN H. WISE.

Witnesses:

GEORGE CRON,
M. V. KELLY.