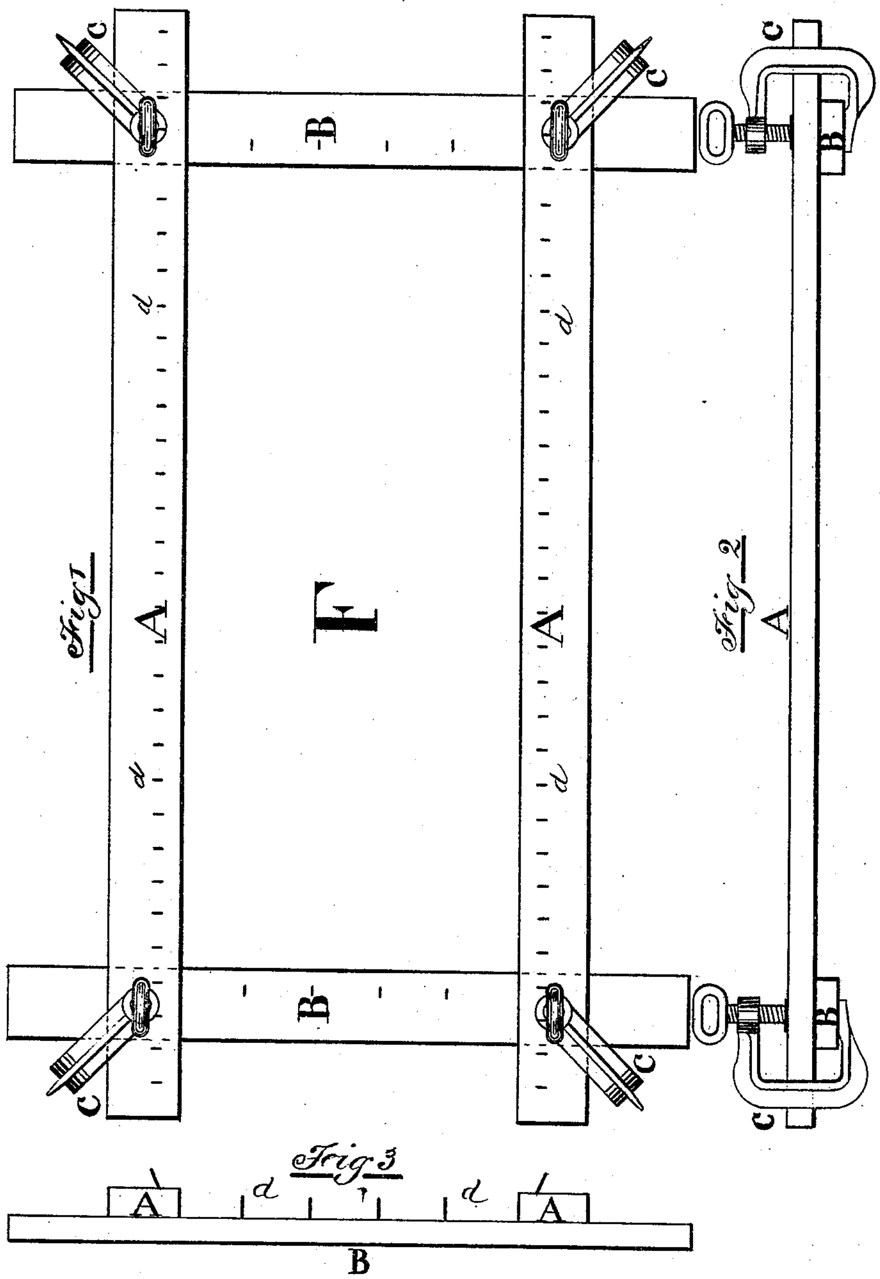
J. GILRAY.

LACE-CURTAIN STRETCHER.

No. 180,572. Patented Aug. 1, 1876.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES GILRAY, OF TORONTO, ONTARIO, CANADA.

IMPROVEMENT IN LACE-CURTAIN STRETCHERS.

Specification forming part of Letters Patent No. **180,572**, dated August 1, 1876; application filed May 1, 1876.

To all whom it may concern:

Be it known that I, JAMES GILRAY, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Lace-Curtain Stretchers; and I do hereby declare that the following is a full, clear, and accurate description thereof, whereby others skilled in the art could make and use the same, reference being had to the accompaying drawing, forming a part of this specification.

My invention relates to a class of devices which are used for the purpose of stretching lace curtains thereon, after having been washed and starched, so that they will, when dry, be equably stretched, having a uniform outline, and be free from peaks and points therein, which are always present when stretched and dried without a proper stretcher.

It consists of two longitudinal bars, sufficiently long to reach beyond the length of any ordinary lace-curtain, one of the sizes having rails measuring about four and a half yards in length by two and one-quarter inches in width, and seven-eighths of an inch thick; also, two cross-bars of about one-half the length of the aforesaid longitudinal bars, and of the same sectional dimensions as those just referred to; also, of four clamps, by means of which the aforesaid four bars are clamped together, so as to form a frame suitable for any or every size of curtain, and adjusted to the required size with perfect accuracy, and with facility.

It consists, also, of a system of headless pins thereon arranged, upon which the curtain is linked, and kept out to the proper size until fully dry and ready for removal therefrom. Two or more pieces can be placed on one frame at the same time, when so required.

In the accompanying drawings, the same letters of reference indicate the same parts in all the views, and in this specification.

Figure 1 is a front view of my device, showing the two longitudinal bars A A, and the two cross-bars B B, and the four screw-clamps C C C C, also the headless pins *d d d*, which pins *d* are placed at a distance not more than two inches apart on the rails A A, and at a distance of four inches on the rails B B. They project out of the rails about three-eighths of an inch, and lie at an angle, the top thereof inclining outward from the center of the frame.

Fig. 2 is a longitudinal edge view, showing bars A A, and the ends of the cross-bars B B, and two of the four clamps C C, as placed in position on the stretchers.

Fig. 3 is a transverse edge view, showing the ends of the longitudinal bars A A with pins *d d*, which are made of brass wire to avoid the effects from rust which would result from the use of other metal.

It will be observed that, on reference to the drawings, and especially to that of Fig. 1, the device is shown clamped up in position to receive the lace-curtain thereon, and that the clamps will admit of the enlargement or contraction thereof, with the utmost precision and facility.

Having thus described my invention, I claim—

In a stetching-frame, F, constructed with plain cross-bars B B, as shown and described, the combination and arrangement therewith of the longitudinal bars A A, pins *d d*, and clamps C C C C, as shown and described, and for the purposes set forth.

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Witnesses:
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