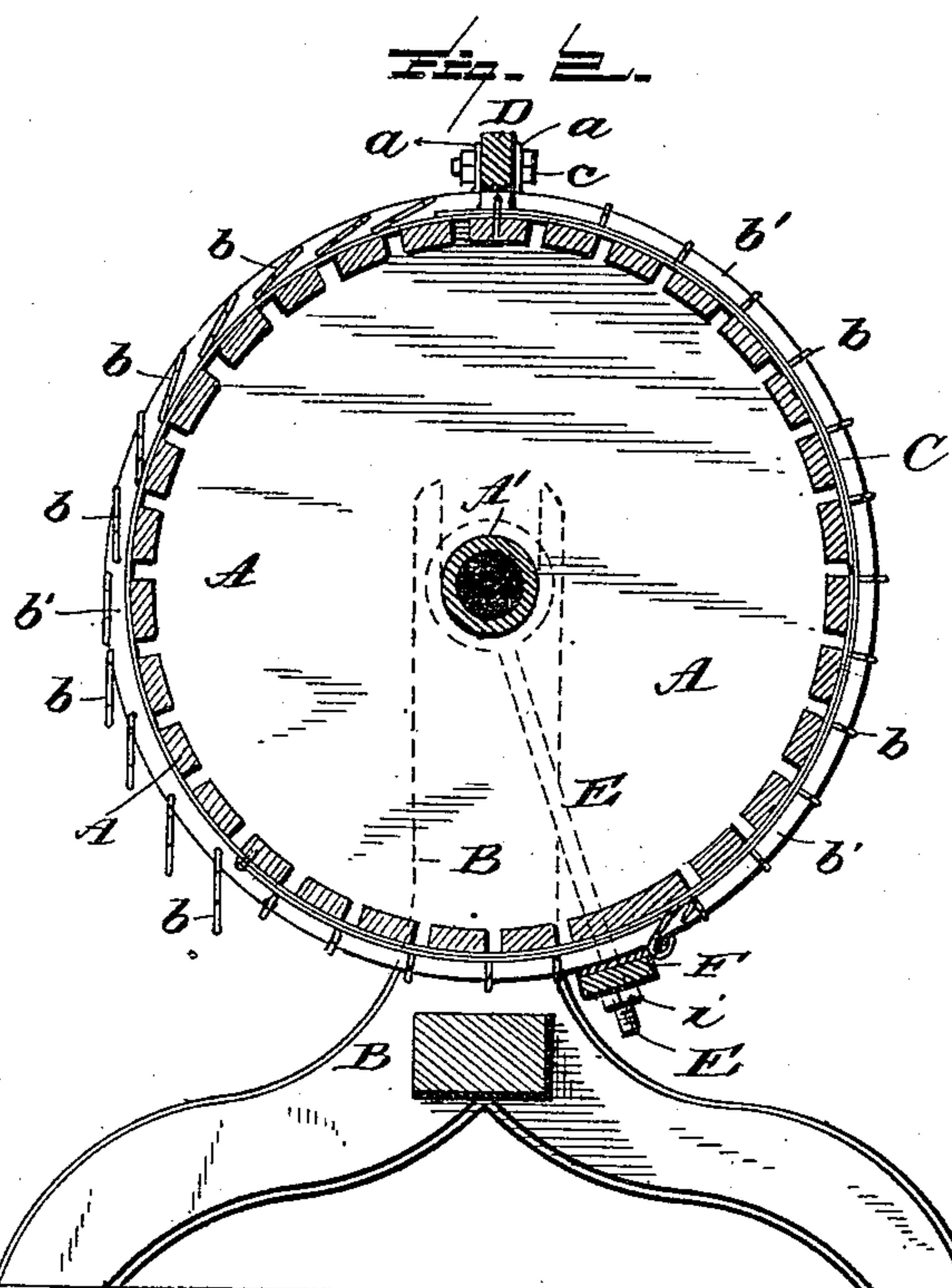
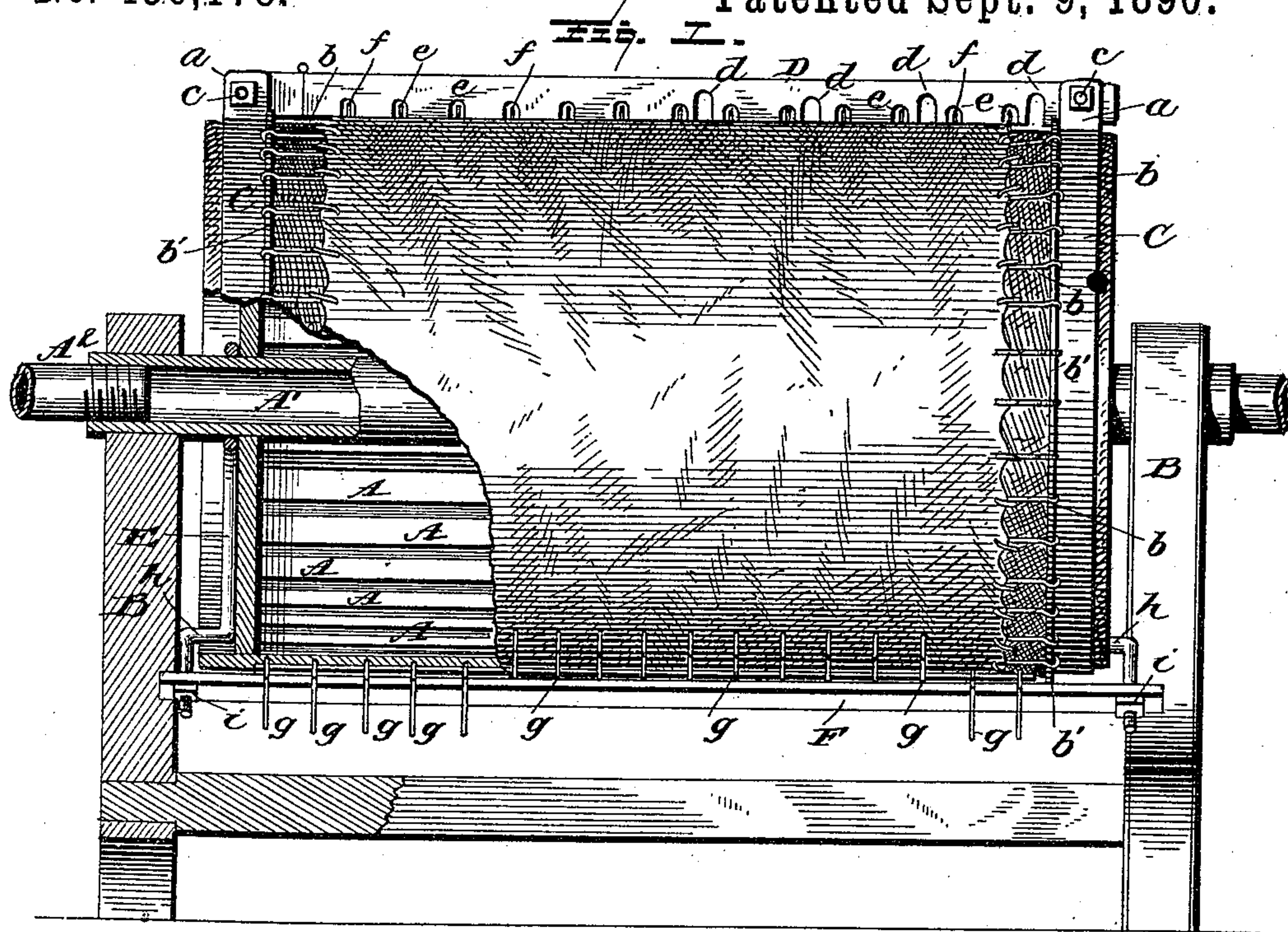


(No Model.)

L. E. LANE, Jr.  
LACE DRIER.

No. 436,178.

Patented Sept. 9, 1890.



Witnesses  
L. C. Hills  
E. A. Bond.

Inventor:  
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Attorney



# UNITED STATES PATENT OFFICE.

LEWIS E. LANE, JR., OF AUBURN, INDIANA.

## LACE-DRIER.

SPECIFICATION forming part of Letters Patent No. 436,178, dated September 9, 1890.

Application filed March 26, 1890. Serial No. 345,347. (No model.)

*To all whom it may concern:*

Be it known that I, LEWIS E. LANE, Jr., a citizen of the United States, residing at Auburn, in the county of De Kalb, State of Indiana, have invented certain new and useful Improvements in Lace-Driers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in devices for stretching and drying lace curtains and other like fabrics; and it has for its object, among others, to provide an inexpensive durable device for this purpose, which may be easily adjusted for curtains of different lengths and widths, and which will quickly dry in a perfectly smooth and straightened condition curtains or other articles placed thereupon.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a side elevation, with parts broken away and other parts in section, showing my improved drier and stretcher with a curtain secured thereon. Fig. 2 is a vertical cross-section through the same with the curtain removed.

Like letters of reference indicate like parts throughout the two figures.

Referring now to the details of the drawings by letter, A designates a suitable drum or cylinder consisting of suitable heads and slats connected thereto and arranged at a distance apart, so as to provide spaces, as shown in both figures of the drawings, for the escape of the heat from the interior of the drum for the purpose of drying the curtains or other articles stretched thereon. This drum or cylinder is carried by a hollow shaft A', into which steam or hot air may be admitted from any suitable source through the pipe A<sup>2</sup>. Additional pipes or coils may be provided within the drum, if desired, without departing from the spirit of the invention, the novelty of which does not reside in the manner of heating of the drum. This shaft is supported in suitable bearings in the uprights B B of any

suitable nature and at the desired height. The upper ends of the bearings are preferably open to provide for the ready removal and insertion of the drum when necessary. This construction is indicated in Fig. 2. The pipe A<sup>2</sup> should be so connected with the hollow shaft as not to interfere with or prevent the drum from being revolved when desired. The drum should be suitably covered with a number of thicknesses of fabric to provide an even and smooth surface for the curtains and to prevent them from being soiled.

Care bands, one near each end of the drum, each being provided with a flange b', extending at right angles to the plane of the drum, as shown, and to these flanges are swingingly connected holding means b, which should be some suitable form of hook which will readily engage the openings in the lace, and yet allow of slight movement thereof without injury thereto. These hooks are free to swivel or turn in any desired direction. These bands are adapted to be adjusted longitudinally of the drum to accommodate themselves to curtains of different widths, and have flanged ends a, as shown best in Fig. 2, through which flanges pass the bolts or screws c, to bind them together.

D is a lever extending longitudinally of the drum outside thereof, and at one end is pivotally secured or hinged to one of the bands and at the other adapted to engage the bolt which connects the flanges of the other band. For this purpose the lever is provided with a plurality of notches d, as shown in Fig. 1, which allows of the various adjustments necessary. This lever is also provided with smaller notches e, adapted to allow the passage of the pins f, which are employed to secure one end of the curtain to the drum. The flanges b' of the bands serve to keep the hooks from coming in contact with the covering of the drum and tearing the same, and provide better means for the attachment of the hooks.

E are arms, loosely sleeved at one end on the shaft A', and at the other carrying a bar F, which extends longitudinally of the drum, as shown, and provided with suitable holding means, as the hooks g. These arms are provided with right-angled bends h, as shown in Fig. 1, to bring their ends beyond the ends of the slats of the drum, as shown. The ends



of these arms are screw-threaded, and are provided with nuts *i* for holding and adjusting the same. This bar is adjustable circumferentially of the drum, for the purpose of  
5 allowing the hooks thereon to engage the ends of curtains of different lengths. It will thus be seen that the holding means are readily adjustable lengthwise of the drum and also circumferentially. I am thus enabled to  
10 stretch and dry curtains of different lengths and of different widths.

In operation, the end of the curtain is secured by the pins *f*, and the sides then secured to the hooks on the end bands. The drum is  
15 then revolved until the other end of the curtain is reached when the bar *F* is adjusted, so that the hooks thereon will engage the said end of the curtain. Steam or hot air is then admitted to the drum, and after a sufficient  
20 length of time the curtain is removed dry and smooth and stretched.

What I claim as new is—

1. In a device for the purpose described, a hollow drum having provisions for heating  
25 the same, combined with bands adjustable longitudinally on the drum and provided with holding devices, a bar extending lengthwise of the drum and provided with holding means,

and a lever connected with one of the bands and removably engaging the other, substantially as described. 30

2. In a device for the purpose described, a hollow drum having bands surrounding the same, with their ends flanged and bolts passed through the flanges, and a notched lever extending lengthwise of the drum pivoted on  
35 the bolt of one band and adapted to engage the bolt of the other, substantially as described.

3. In a device for the purpose described, a hollow drum having provisions for heating  
40 the same, combined with bands surrounding the drum and provided with holding means and adjustable longitudinally on the drum, a lever extending lengthwise of the drum and pivotally connected with one of the bands,  
45 radial arms loosely sleeved upon the shaft of the drum, and the bar carried by the outer ends of the arms extending lengthwise of the drum and provided with holding means, substantially as described. 50

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

LEWIS E. LANE, JR.

Witnesses:

E. A. BROWN,

F. ELMER LANE.