

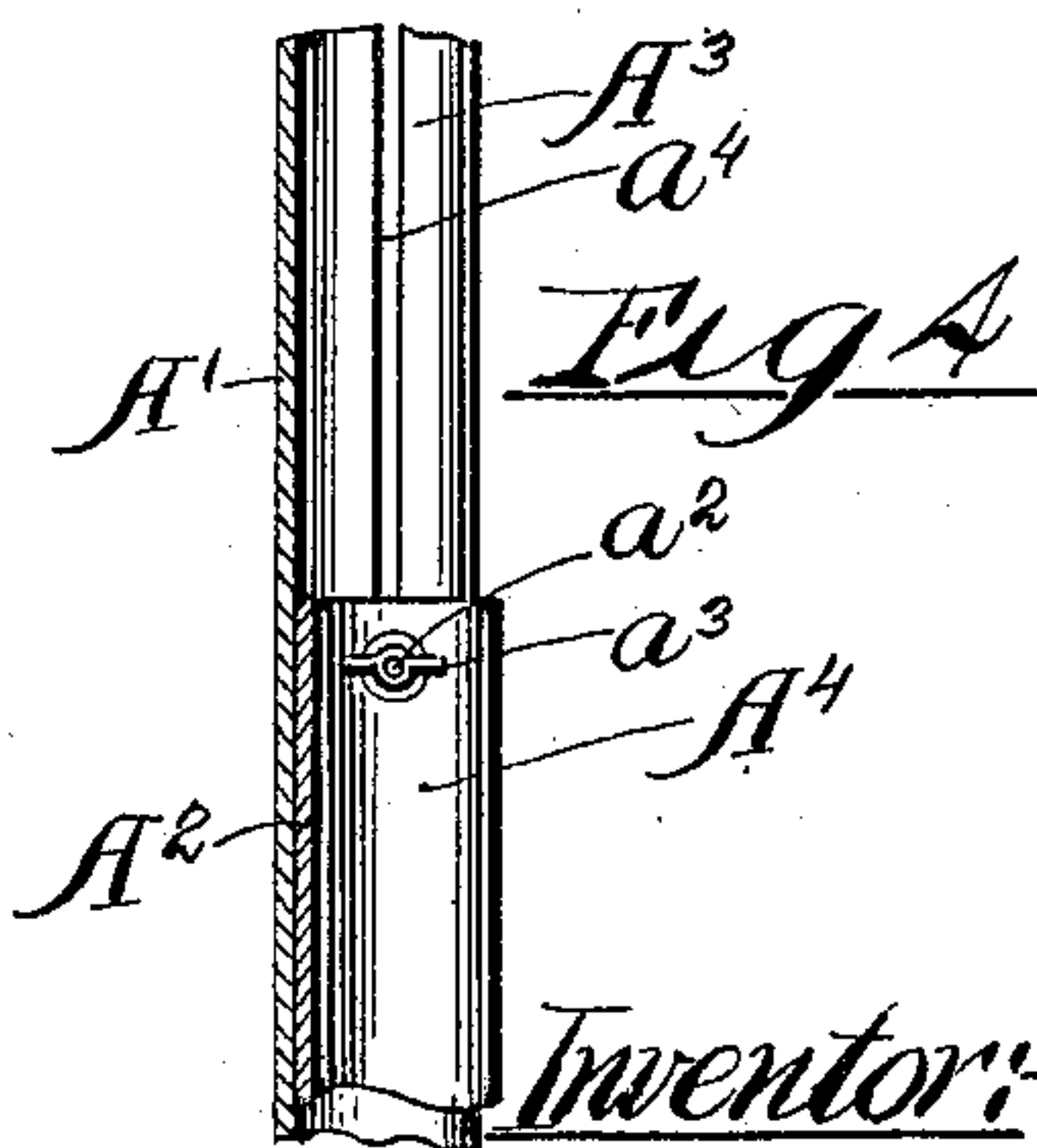
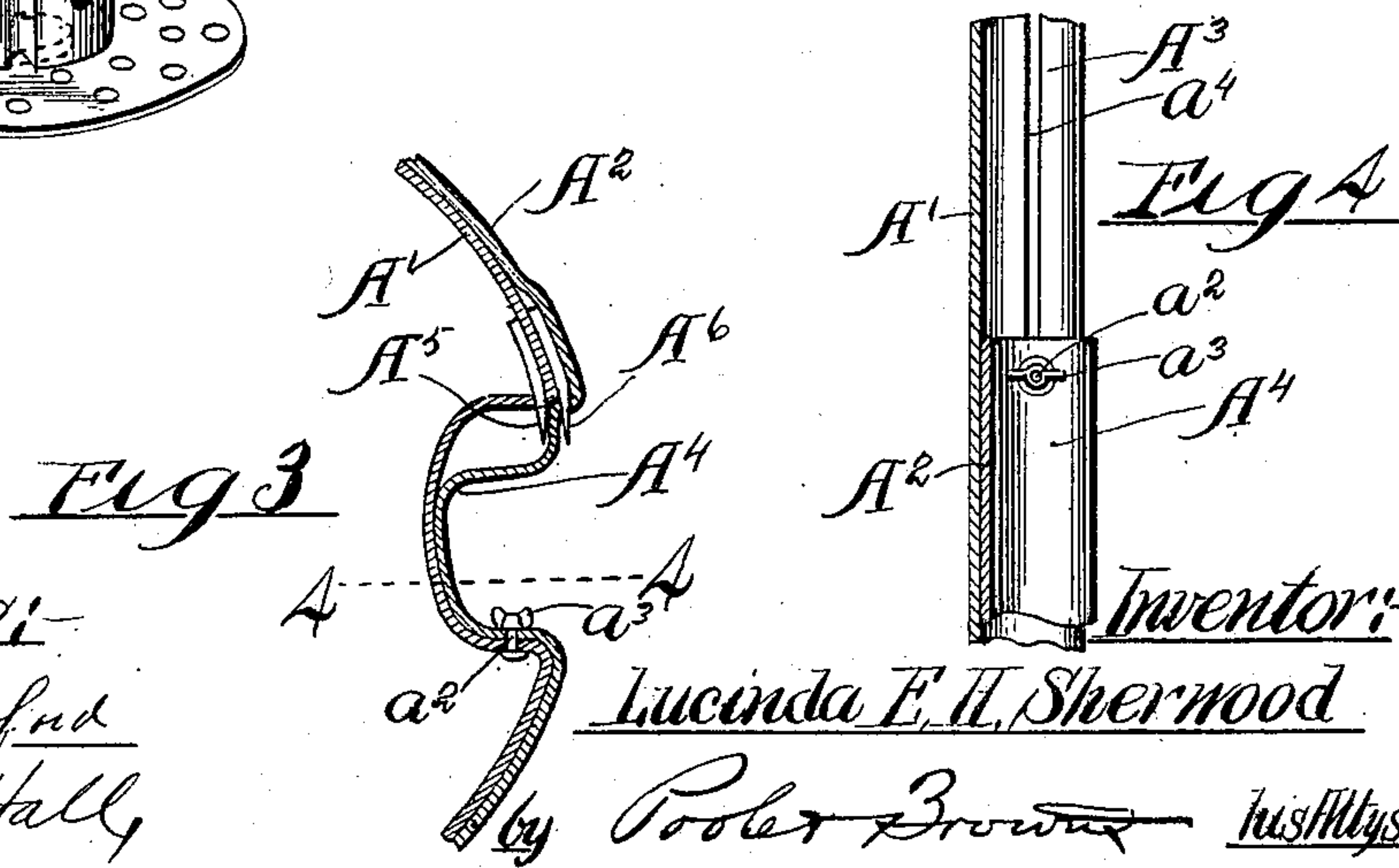
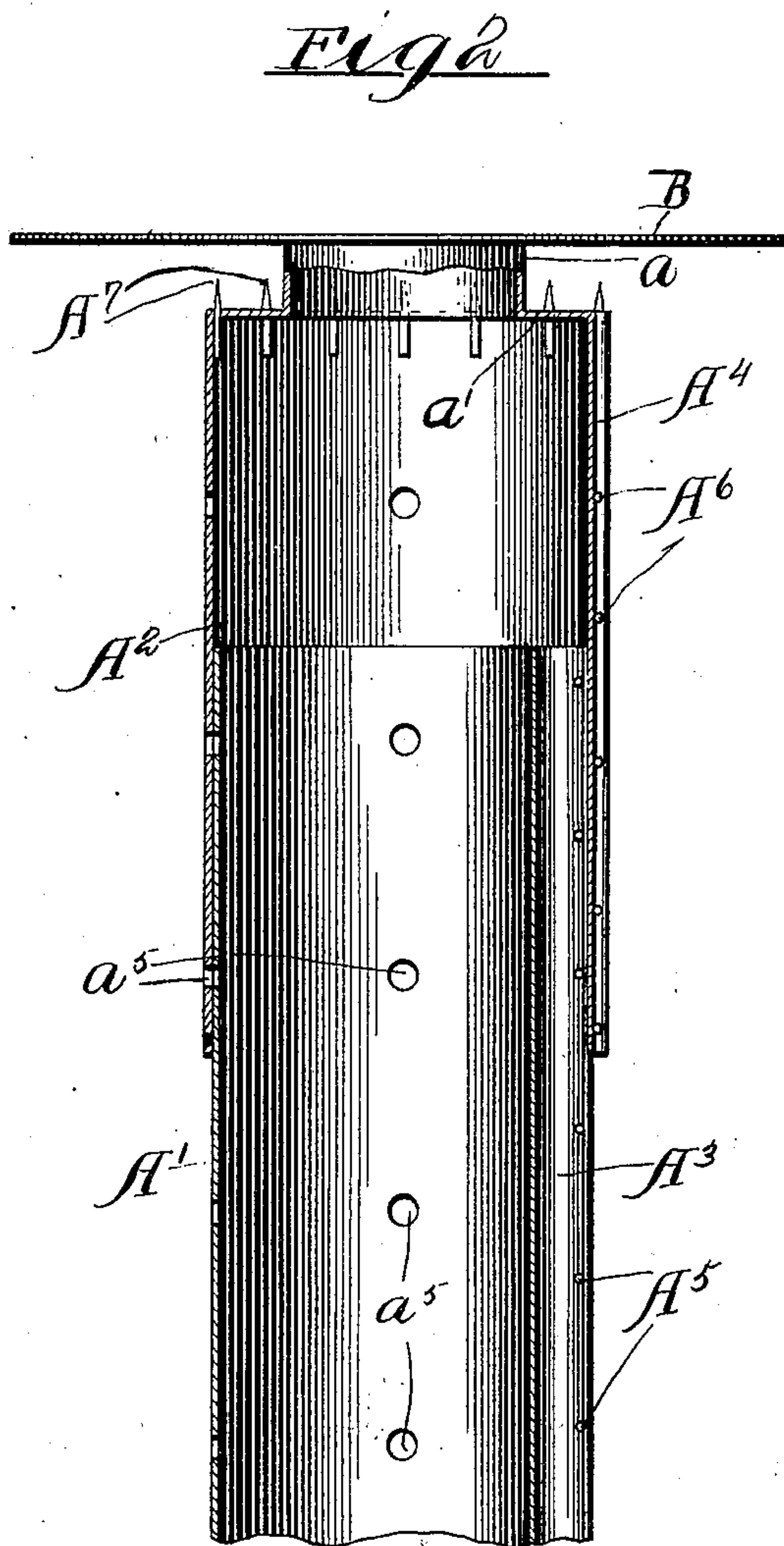
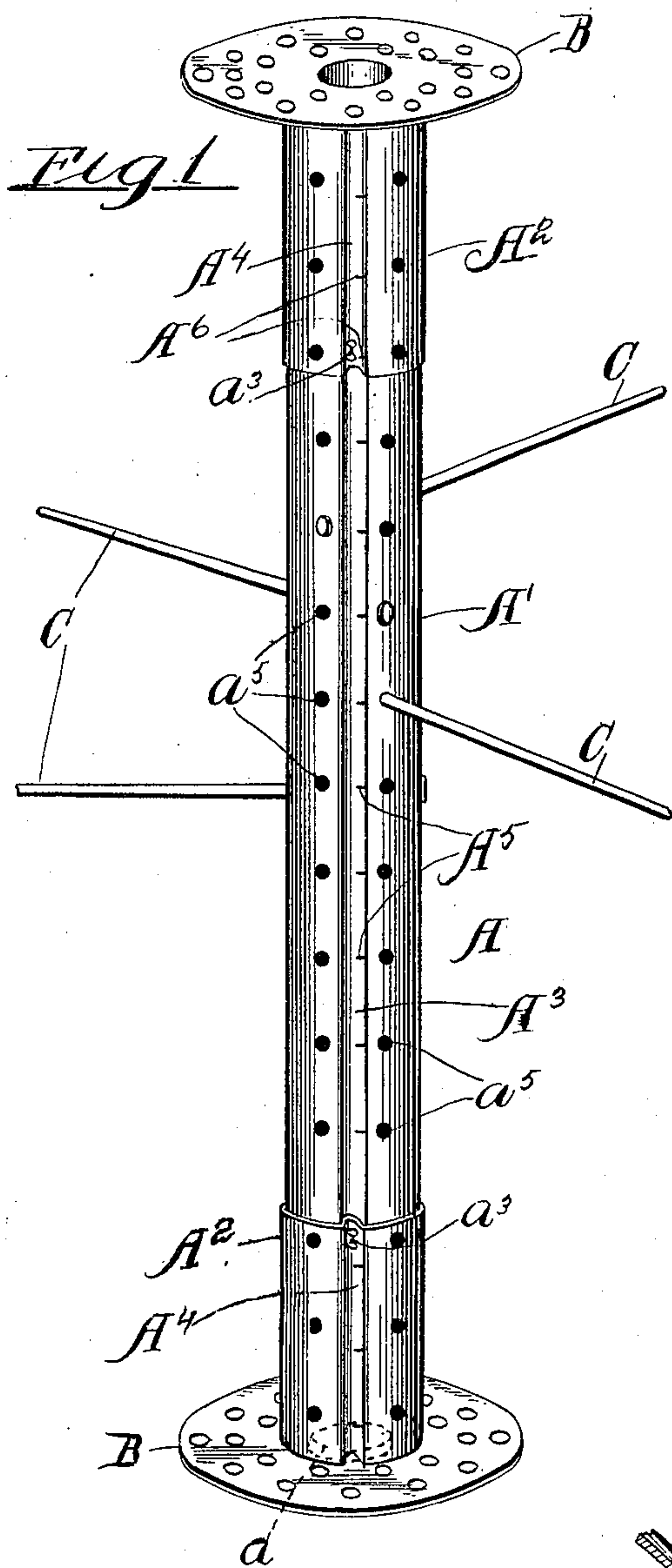
No. 644,305.

Patented Feb. 27, 1900.

L. E. H. SHERWOOD.
DEVICE FOR DRYING FABRICS.

(Application filed June 19, 1899.)

(No Model.)



Witnesses:
Carl H. Crawford
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Lucinda E. H. Sherwood

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UNITED STATES PATENT OFFICE.

LUCINDA E. H. SHERWOOD, OF CHICAGO, ILLINOIS.

DEVICE FOR DRYING FABRICS.

SPECIFICATION forming part of Letters Patent No. 644,305, dated February 27, 1900.

Application filed June 19, 1899. Serial No. 721,023. (No model.)

To all whom it may concern:

Be it known that I, LUCINDA E. H. SHERWOOD, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Devices for Drying Fabrics; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to a novel device for stretching and holding fabrics, such as lace curtains, for the purpose of drying the same; and the invention consists in the matters hereinafter set forth, and more particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a device made in accordance with my invention. Fig. 2 is an axial section of one end thereof. Fig. 3 is a detail section, on an enlarged scale, taken on line 3 3 of Fig. 2. Fig. 4 is a detail section taken on line 4 4 of Fig. 3.

A device made in accordance with my invention consists generally of an elongated body, about which the fabric, such as lace curtains, to be dried is wound in superposed layers in such manner as to properly stretch the same, so that when dried the fabric will be smooth and free from folds or wrinkles. Said elongated body is provided with a longitudinal slot or groove, within which are located suitable fastening devices which are adapted to engage the end margin of the fabric, so as to permit the same to be properly stretched when wound about the body, and is provided also at its ends with fastening devices adapted to engage the side margins of the fabric, so as to hold the superposed layers thereof properly stretched in the direction of their width. When the device is to be used for fabrics of different widths, the fastening means at the ends thereof will be made adjustable as to their distance apart, and for this purpose the body will preferably be made of two or more sections which have telescopic engagement and provided with means by which they may be locked from relative longitudinal movement.

Referring now to the details of construction illustrated in the drawings, A designates an

elongated body, which is preferably made tubular. Said body is conveniently made from sheet metal and is shown as of cylindric form in cross-section, though its form may be varied as desired. In the form of device illustrated in Fig. 1 the cylindric body is made of three sections, an intermediate section A' and two end sections A², said end sections fitting over and having longitudinal sliding engagement with the intermediate section. Such extensible construction is provided for the purpose of varying the length of the device to suit different-width fabrics to be dried thereon, and obviously one telescopic section will answer such purpose. B designates a supporting-base having the form of a disk, to which the body portion A is secured centrally. Said disk is shown as secured directly to a neck or reduced portion α , which is attached to or made integral with the end wall α' of the end section. As herein shown, two disks B are provided, whereby the device may be supported on either end. Said intermediate section is provided on one side thereof with a longitudinal groove or recess A³, and the end sections are provided with like grooves A⁴, which register and extend in alinement with said groove A³. Said grooves, when the device is made from sheet metal, are made by depressing or swaging the metal forming the same inwardly, and preferably the side walls of said grooves will be bent at sharp angles to the curved wall of the body just outside of the groove. Within said grooves A³ A⁴ are located a plurality of attaching devices which are herein shown as having the form of the sharp-pointed pins A⁵ A⁶, which are attached rigidly to said sections at short intervals and which project laterally into said grooves from one side thereof. The pins A⁵ of the intermediate section pass through apertures in the side wall of the groove near the outer or open side of the groove, and the inner ends of said pins lie against the inner face of the wall of the body and are secured thereto by soldering or otherwise. Said recess is made of sufficient depth and width to permit the end margin of the fabric to be dried to be readily attached to and detached from the pins. The inwardly-depressed parts of the metal forming the grooves A⁴ of the end sections when said

sections are in place fit within the groove A^3 of the intermediate section, and said sections are thereby held from relative rotation and with the attaching devices thereof in alinement. The pins A^6 of said end sections pass through apertures in the side walls of the grooves or recesses A^4 and extend into said recesses, as in the construction of the intermediate section, and are secured at their inner ends to the inner faces of the walls of said sections and between the same and the outer face of the wall of the intermediate section by soldering or like means. Said pins A^5 will desirably be slightly curved inwardly, as shown in Fig. 3, so as to permit the metal forming the walls of the grooves A^4 to more fully enter the grooves A^3 , and thereby provide an effective interlocking connection between the same. Said pins being contained entirely within the grooves of said sections are adapted for engagement only with the inner end margin of the fabric and do not form projections which break the cylindric contour of the body, as would occur if the attaching devices were located on the outer surface of the body.

The end fastening devices are shown as consisting of pins A^7 , which project outwardly from the end walls a' of the end sections parallel with the central longitudinal axis of said sections. Said pins A^7 are arranged in circular series about the margins of said end walls and, as shown, pass through apertures in said end walls and engage at their inner ends the inner faces of the side walls of said end sections, to which they are secured by soldering or like means. The necks or reduced parts a constitute, in effect, annular grooves, into which the pins A^7 project and which enable the fabric to be readily engaged with and removed from said pins, the said annular grooves in this respect serving the same purpose as the longitudinal grooves A^3 and A^4 . Each layer of the fabric as it is wrapped about said body will be attached to said pins, so as to hold the same properly stretched in the direction of its width. The necks or reduced portions a are made of sufficient length to give ample width to said grooves to permit ready attachment and detachment of the side margins of the fabric. Means are provided for locking said intermediate and end sections from relative endwise movement when adjusted. Said means consists, as herein shown, of bolts a^2 , located within said grooves, and which pass through the metal forming the walls of the grooves on the side thereof opposite to said fastening-pins. A nut a^3 , which has screw-threaded engagement with the bolt, serves to clamp said walls together. One of said walls—the wall of the groove A^3 , as shown—is provided with a slot a^4 , through which the bolt passes and by which relative movement of the sections is permitted when the nut is loosened on the bolt.

Desirably the sections are provided with a

plurality of apertures a^5 , and the ends of the necks a will extend through the disks B and will be left open, whereby air may circulate freely through the tubular sections, and the innermost of the superposed layers of the fabric thus more rapidly dried. The disks B may also be perforated, so as to permit ascending air-currents to pass therethrough to the ends of the folds or layers of fabric when the device is in a vertical position. Said disks will be made of such diameter as to hold the curtain out of contact with a supporting-surface when the device is in a horizontal position.

The body A may when not in use, as for the purpose described, constitute the standard of a clothes-horse for supporting articles of clothing or the like in position for drying. For this purpose said body may be provided with a plurality of radial arms C, as shown in Fig. 1, which pass through and are removably secured in the apertures a^5 in said body.

I claim as my invention—

1. A device for the purpose set forth comprising an elongated body about which the fabric to be dried is wound in superposed layers, said body being provided on one side with a longitudinal groove, fastening devices within said groove adapted for engagement with the end margin of the fabric, and a series of fastening devices arranged around said body at each end thereof and which project from said body and are adapted for engagement with the side margins of the fabric.

2. A device for the purpose set forth comprising an elongated extensible body about which the fabric to be dried is wound in superposed layers, said body being provided with a longitudinal groove, fastening devices within said groove, and a series of circumferentially-separated fastening devices extending around said body at each end thereof.

3. A device for the purpose set forth comprising an elongated body provided with a longitudinal groove, pins attached to said body and projecting laterally into said groove, and pins projecting also from the ends of said body.

4. A device for the purpose set forth, comprising an elongated tubular body about which the fabric to be dried is wound in superposed layers, said body being provided on one side with a longitudinal groove, fastening devices within said groove, and a series of circumferentially-separated fastening devices arranged around said body at each end thereof.

5. A device for the purpose set forth, comprising an elongated tubular body open at each end thereof and provided on one side with a longitudinal groove, and in the wall thereof with a plurality of apertures, fastening devices within said groove, and fastening devices extending around said body at each end thereof.

6. A device for the purpose set forth, comprising an elongated body provided with a

longitudinal groove, pins attached to said body and projecting laterally into said groove, a neck on one end wall of said body, a supporting-base attached centrally thereof to said neck, and pins projecting from said end wall and surrounding said neck.

7. A device for the purpose set forth, comprising two tubular sections which have telescopic engagement, said sections being provided with longitudinal depressions forming grooves, the depression in the outermost section fitting within the groove of the innermost section, fastening devices within said grooves, fastening devices extending around said sections at the outer ends thereof, and means for locking said section from relative endwise movement.

8. A device for the purpose set forth, comprising two tubular sections which have telescopic engagement, said sections being provided with longitudinal depressions forming grooves, the depression in the outermost section fitting within the groove of the innermost section, fastening devices within said grooves, fastening devices extending around said sections at the outer ends thereof, a bolt passing through the walls of said sections in said grooves, and a screw-threaded nut on said bolt, one of said walls being provided with a longitudinal slot engaged by said bolt.

9. A device for the purpose set forth, comprising two tubular sections which have telescopic engagement, said sections being provided with longitudinal depressions forming grooves, pins attached to said sections and projecting laterally into said grooves, the depression of the outermost section fitting within the groove of the innermost section and overlying the pins in said groove, pins projecting from the ends of said sections, and a locking device in said grooves opposite said pins.

10. A device for the purpose set forth, comprising an elongated tubular body provided on one side thereof with a longitudinal groove and provided also in the walls thereof with a plurality of apertures, fastening devices within said groove, fastening devices also extending around said body at the ends thereof, and a plurality of radial arms adapted

for detachable engagement with said apertures in said walls of the body.

11. A device for the purpose set forth, comprising two tubular telescopic sections, about which the fabric to be dried is wound in superposed layers, a row of attaching devices on one side of said sections adapted for engagement with the end margin of the fabric, a plurality of attaching devices at the outer ends of said sections adapted for engagement with the side margins of the fabric, and clamping means engaging the walls of said sections for locking the sections from relative endwise movement.

12. A device for the purpose set forth comprising an elongated body, about which the fabric to be dried is wound in superposed layers, said body being provided with a longitudinal groove, fastening devices in said groove, a series of circumferentially-separated fastening devices arranged around said body near each end thereof, and means for varying the distance between the fastening devices, carried by one end of said body and those carried by the other end of said body.

13. A device for the purpose set forth comprising an elongated body provided with a longitudinal groove, fastening means in said groove for the end margin of a fabric, and provided also at its ends with grooves within which are located fastening devices for the side margins of the fabric.

14. A device for the purpose set forth comprising an elongated body provided with a longitudinal groove, fastening means in said groove for the end margin of a fabric, and provided also at its ends with grooves within which are located fastening devices for the side margins of the fabric, said fastening devices at the end of the body being made adjustable as to their distance apart to provide for fabrics of different widths.

In testimony that I claim the foregoing as my invention I affix my signature, in presence of two witnesses, this 7th day of June, A. D. 1899.

LUCINDA E. H. SHERWOOD.

Witnesses:

WILLIAM L. HALL,
GERTRUDE BOYCE.