

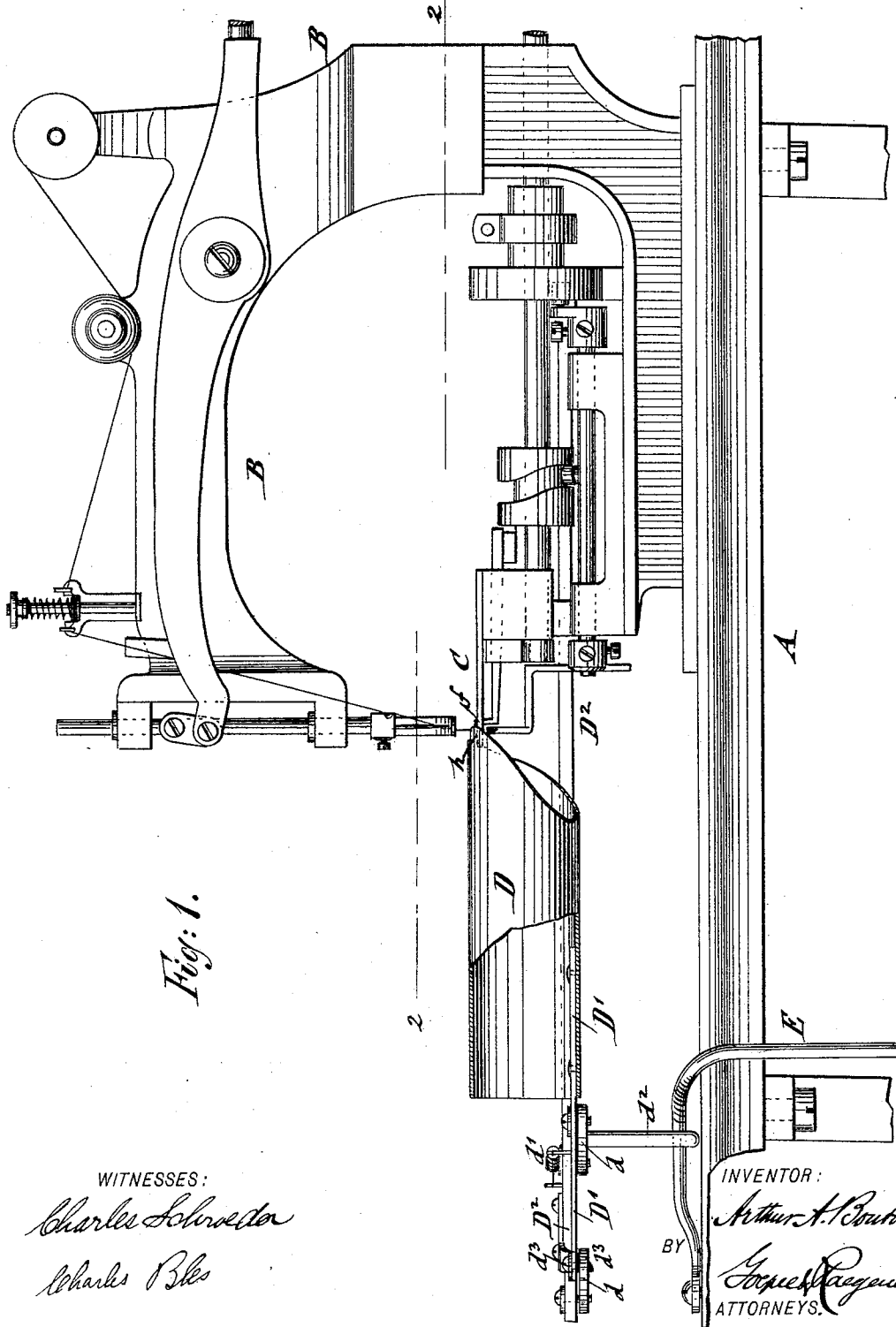
(No Model.)

3 Sheets—Sheet 1.

A. A. BOUTON.
ATTACHMENT FOR SEWING MACHINES.

No. 483,097.

Patented Sept. 20, 1892.



WITNESSES:

Charles Schneider
Charles Bles

INVENTOR:

Arthur A. Bouton

BY

Charles Bles
ATTORNEYS.

(No Model.)

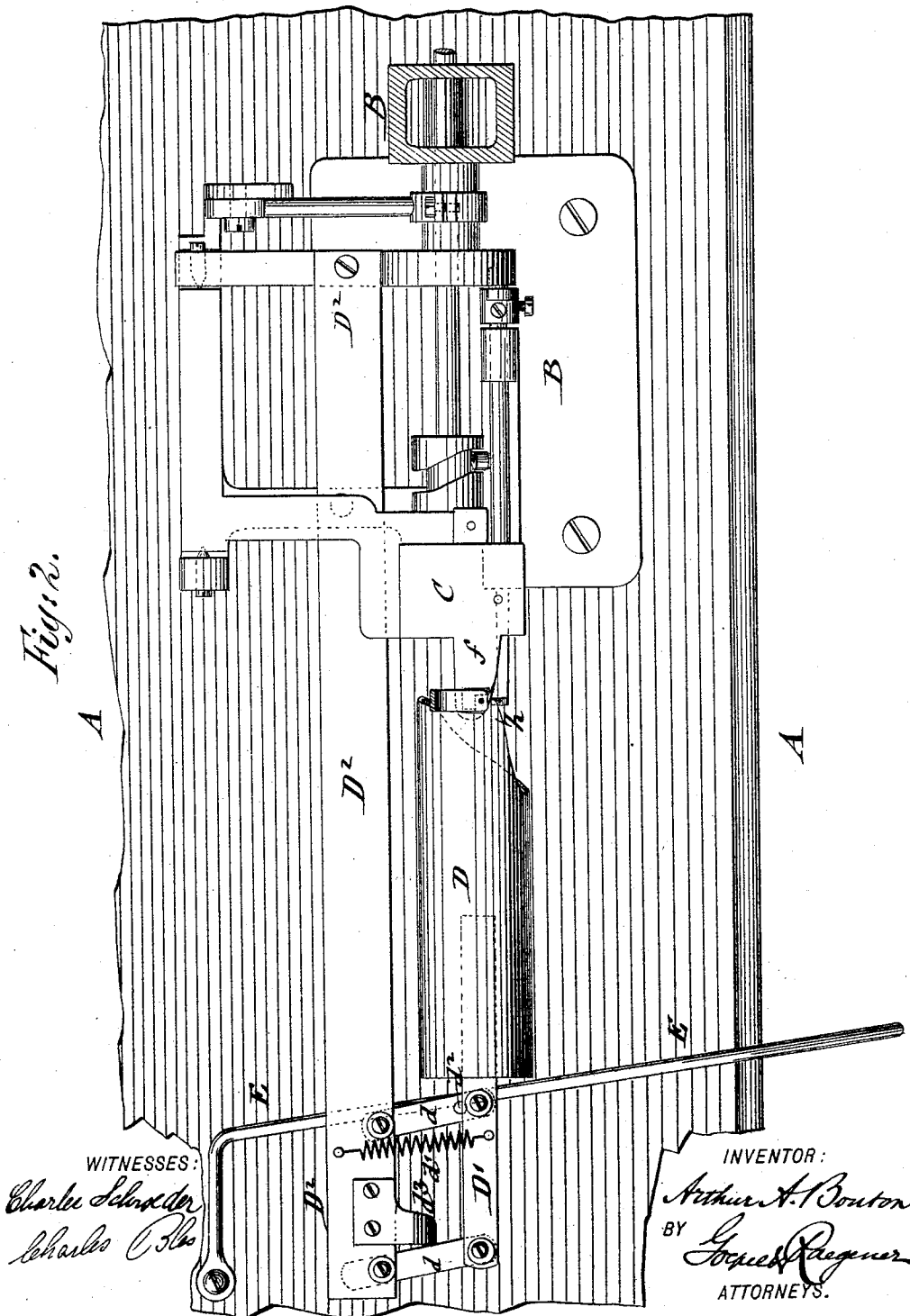
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Fig. 2.



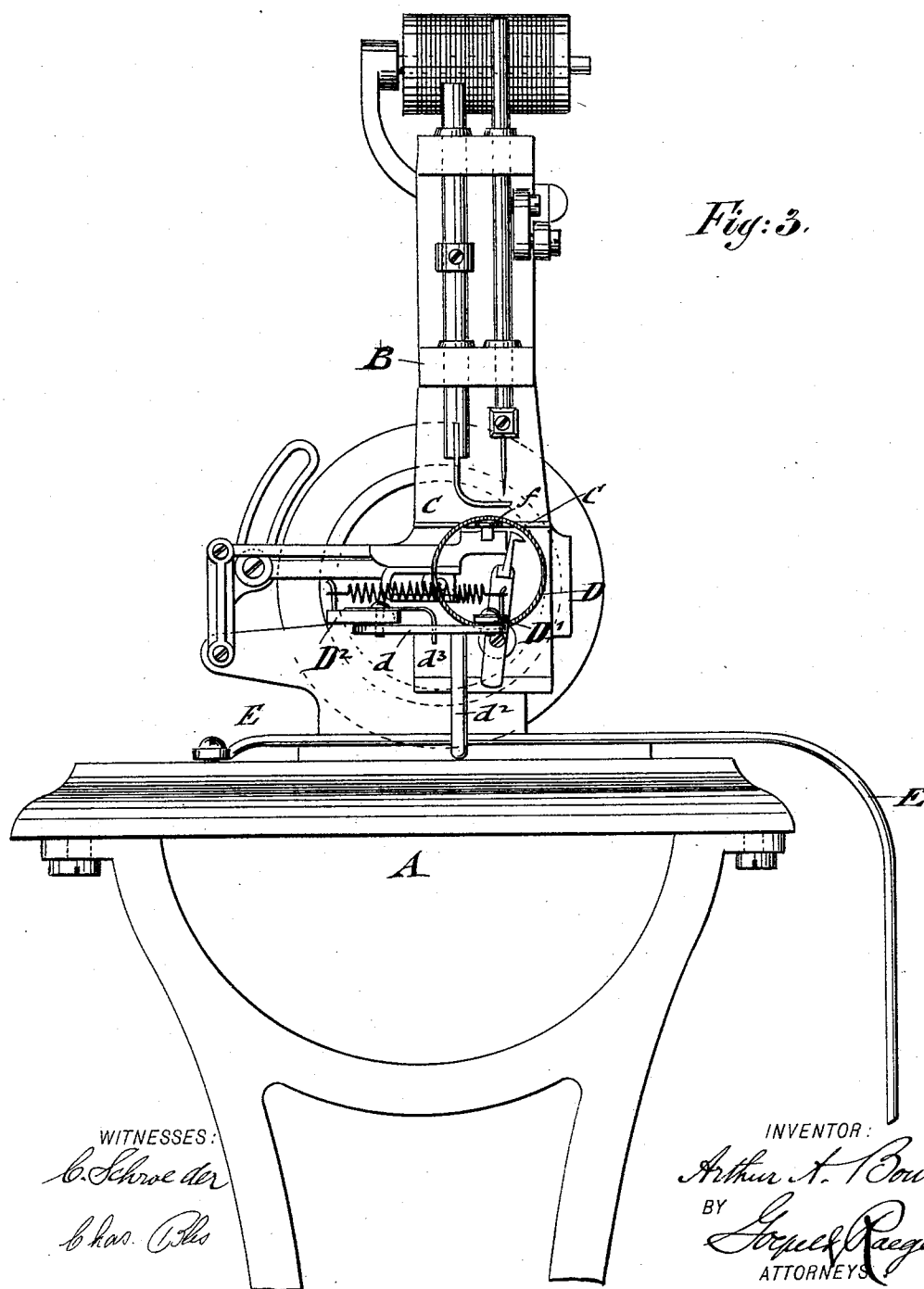
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3 Sheets—Sheet 3.

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UNITED STATES PATENT OFFICE.

ARTHUR A. BOUTON, OF BROOKLYN, ASSIGNOR TO JULIUS KAYSER, OF NEW YORK, N. Y.

ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 483,097, dated September 20, 1892.

Application filed August 20, 1891. Serial No. 403,186. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR A. BOUTON, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Attachments for Sewing-Machines, of which the following is a specification.

This invention relates to an improved attachment to chain-stitch and other sewing-machines by which the thumbs can be quickly and conveniently sewed into gloves and mits instead of being taken hold of by the fingers and fed to the needle by the dexterous manipulations of the attendant, said attachment being designed to facilitate the sewing in of the thumbs into gloves and mits of silk, lace, and other fabrics, so that the work is considerably facilitated and expedited and a better finish for the gloves obtained.

The invention consists in the combination of a lock-stitch or other sewing-machine having a needle-plate with a laterally-projecting portion or finger with a cylindrical guide-tube that is located in line with the axis of the needle-plate and shaped at the end adjacent to the needle-plate, as required by the thumb-opening of a glove, and provided with a horn extending over the needle-plate, and means by which said guide-tube is moved in line with the needle-plate toward or away from the same, so as to permit the placing in position of the body of the glove or mit on the guide-tube preparatory to sewing on the thumb part by the joint action of the edge of the guide-tube and the action of the working parts of the sewing-machine. The upper part of the guide-tube is preferably arranged on a level or nearly with the needle-plate and provided with a forward-projecting portion or horn, along which the edge of the thumb-opening of the glove and the edge of the thumb are guided as they are fed to the finger of the needle-plate during the stitching operation. The mechanism by which the guide-tube is moved away from the needle-plate or toward the same is preferably actuated by a downwardly-bent lever which is operated by the knee of the attendant, so that the hands are not required for doing the same.

The invention further consists of certain

novel details of construction, which will be fully described hereinafter, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a front elevation of a chain-stitch sewing-machine with my improved attachment for sewing on the thumbs of gloves, a portion of the attachment being broken out. Fig. 2 is a plan of the sewing-machine and attachment, partly in horizontal section, on line 2-2, Fig. 1; and Fig. 3 is an end elevation of the sewing-machine and the attachment.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents an ordinary sewing-machine table, on which a chain-stitch or other organized sewing-machine B, of any approved construction, is supported. The needle-plate C of the machine is recessed at the front and rear part, so as to form a laterally-extending finger *f*, in which the hole for the needle is arranged. The needle-bar, presser-bar, and the feed mechanism are arranged above the outer end of the finger *f* of the needle-plate. In line with the longitudinal axis of the needle-plate C is supported a cylindrical guide-tube D, the diameter of which is so proportioned that the thumb-hole of the glove may be readily placed on said guide-tube in such a manner that the end of the guide-tube projects through the thumb-hole of the glove or mit. This guide-tube D is attached to a longitudinal bar D' at its lower part, which is connected by means of parallel pivot-straps *d d* with a longitudinal bar D², that extends a short distance back of the guide-tube and is attached in any suitable manner to the base of the sewing-machine. A spiral spring *d'* connects the supporting-bar D' of the guide-tube D with the longitudinal bar D², and thereby the inner end of the guide-tube is held in contact with the finger *f* and held out of contact when the guide-tube is moved away from the finger, the spring tending to draw the bar D' toward the bar D² when the straps are oscillated past their centers of oscillation in either direction. A pin *d*² extends in downward direction from one of the pivot-straps *d*, said pin being engaged by a lever E, that is pivoted at its rear end to the table of the sewing-machine and bent in

downward direction at its front end, so as to be engaged by the knee of the operator. When side motion toward the left is imparted to the bent lever E, the guide-tube D is moved
 5 away from the needle-plate of the sewing-machine, so as to give sufficient space for removing the finished glove or mit and inserting a new glove or mit body on the same. A projecting stop d^3 is attached to the longitudinal
 10 bar D^2 , said stop arresting the guide-tube D and preventing it from passing too far over the needle-plate. The end of the guide-tube D adjacent to the needle-plate is cut off at a suitable inclination and provided at its upper
 15 front part with a forward-extending portion or horn h , which extends over the finger f of the needle-plate and which serves to guide the edge of the thumb-hole of the glove or mit and the edge of the thumb toward the
 20 needle of the sewing-machine, so that they are stitched together in their passage over the needle-plate.

The operation of the sewing-machine in stitching on a thumb to the body of a glove, mit, or other article is as follows: The cylindrical guide-tube D is first moved away from the needle-plate by pushing the lever E side-
 25 wise by the knee. Sufficient space is thereby furnished between the end of the guide-tube D and the finger f of the needle-plate to permit the ready slipping of the mit or glove body over the inner end of the guide-tube in such a way that the thumb-hole of the same
 30 is near the inner end of the guide-tube. After this is accomplished the guide-tube is then returned into its normal position over the finger of the needle-plate and the operating parts of the sewing-machine by taking hold of the
 35 guide-tube and pushing the entire attachment, together with the lever E, toward the right until the connecting-strap d is arrested by the stop d^3 . The edge of the thumb is then placed by the fingers of the operator
 40 alongside of the edge of the thumb-hole of the body of the glove or mit and stitched thereto by the operation of the sewing-machine.

The feed mechanism of the sewing-machine moves both the glove-body and the thumb
 50 around the guide-tube and along the horn of the same, so as to guide it toward the needle, the fingers only manipulating the adjacent edges of the thumb-hole of the glove-body and thumb in such a manner that the regular
 55 stitching of the same is produced by the sewing-machine.

By the comparatively simple attachment described thumbs can be easily and quickly
 60 stitched to the bodies of the gloves, mits, or other articles, and thereby a considerable saving in time and labor obtained as compared to the present method of attaching the thumbs by hand, while it has the advantage of greater simplicity, rapidity, and ease of
 65 operation when compared to the rather complicated methods of attaching the thumbs to

the gloves or in the bodies by mechanical appliances.

Having thus described my invention, I claim as new and desire to secure by Letters 70 Patent—

1. The combination, with an organized sewing-machine having a needle-plate with a laterally-extending finger, of a cylindrical
 75 guide-tube arranged in line with the longitudinal axis of the needle-plate and provided with a horn extending over the finger of the needle-plate, substantially as set forth.

2. The combination, with an organized sewing-machine having a needle-plate with a
 80 laterally-extending finger, of a cylindrical guide-tube having a cut-away inclined end adjacent to said finger and a horn extending over said finger, substantially as set forth.

3. The combination, with an organized sewing-machine having a needle-plate provided
 85 with a laterally-extending finger, of a cylindrical guide-tube having an inclined cut-away end adjacent to the needle-plate, and a projecting portion or horn extending over
 90 said needle-plate, and means for moving said guide-tube away from or toward the needle-plate, substantially as set forth.

4. The combination, with an organized sewing-machine provided with a needle-plate hav-
 95 ing a laterally-extending finger, of a guide-tube arranged in line with said needle-plate, means for moving said guide-tube away from said needle-plate or toward the same, and a stop for arresting the guide-tube when the
 100 same arrives in its normal position relatively to the needle-plate, substantially as set forth.

5. The combination, with an organized sewing-machine having a needle-plate provided
 105 with a laterally-extending finger, of a guide-tube arranged in line with said needle-plate, a longitudinal supporting-bar attached to said guide-tube, a fixed longitudinal bar, pivot-
 110 straps for connecting said supporting-bar with the longitudinal bar, a stop for arresting the guide-tube, and a bent lever that is adapted to engage a fixed pin on one of the pivot-straps and move the guide-tube away
 115 from the needle-plate, substantially as set forth.

6. In an organized sewing-machine for sewing the thumbs to the bodies of gloves, mits, or
 120 other articles, a cylindrical guide-tube for the glove or mit body, having its inner edge adjacent to the working parts of the sewing-machine arranged at a suitable inclination and provided at its upper front part with a forward-extending portion or horn that projects
 125 over the needle-plate in front of the needle, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ARTHUR A. BOUTON.

Witnesses:

PAUL GOEPEL,
 L. A. VAN PRAAG.