

(No Model.)

2 Sheets—Sheet 1.

L. S. CHAFFEE, Dec'd.

M. H. CHAFFEE, Administratrix.

GUIDING DEVICE FOR SEWING MACHINES.

No. 486,821.

Patented Nov. 22, 1892.

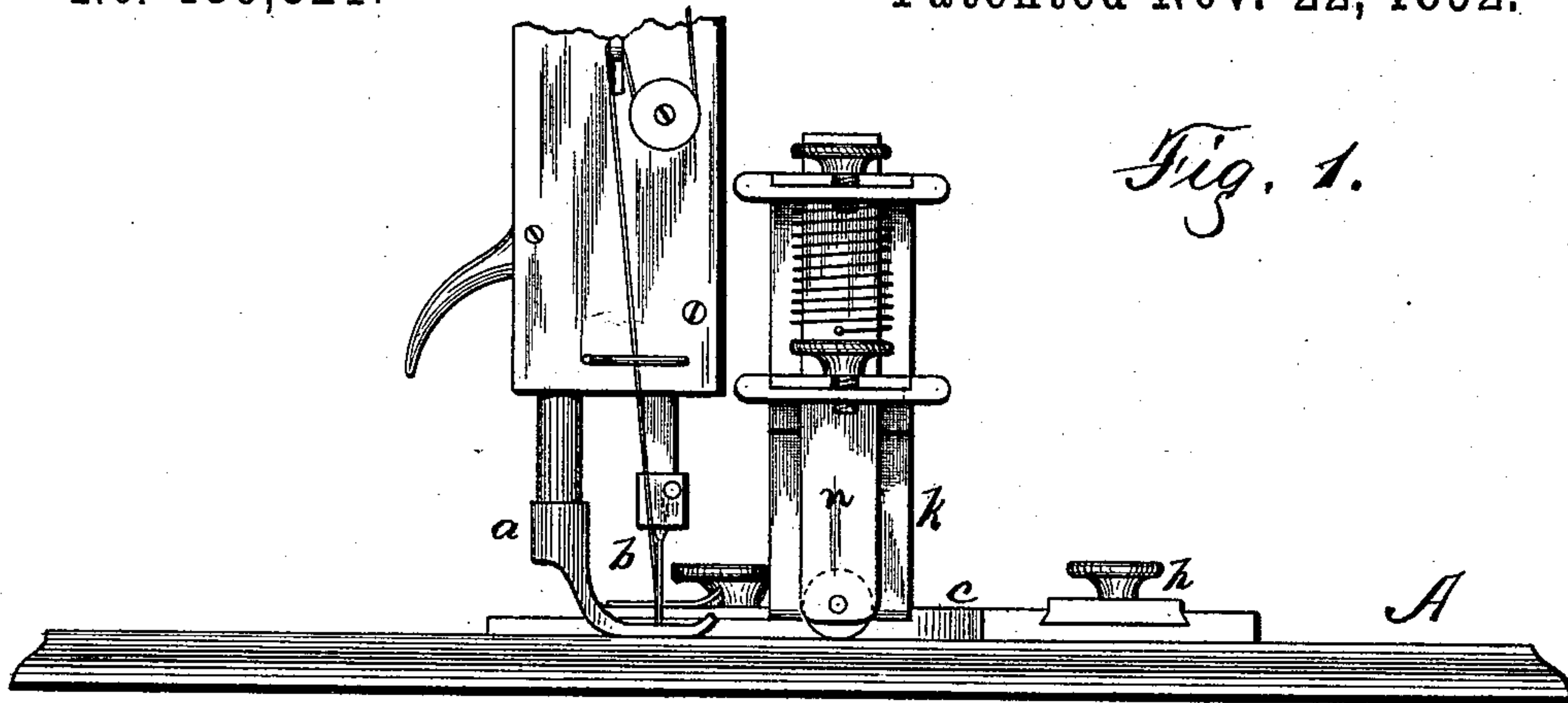


Fig. 1.

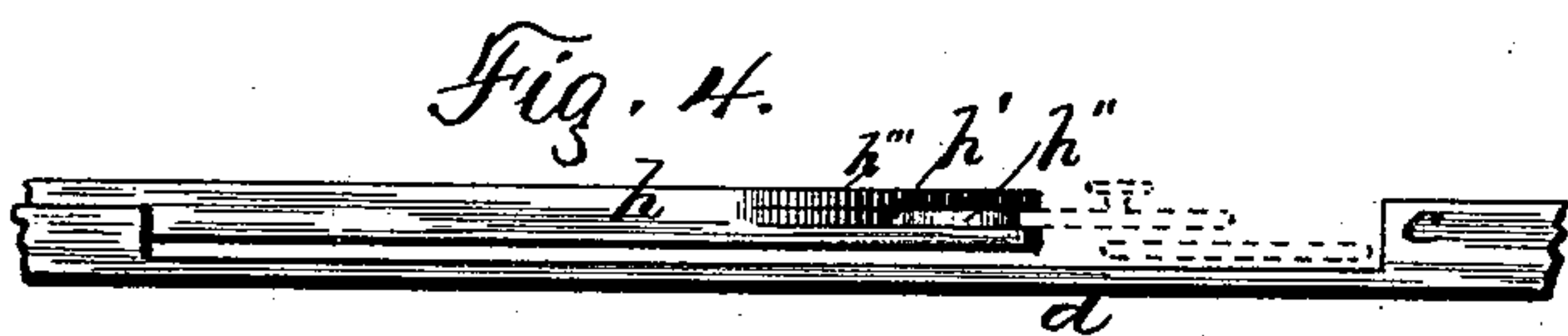


Fig. 4.



Fig. 5.

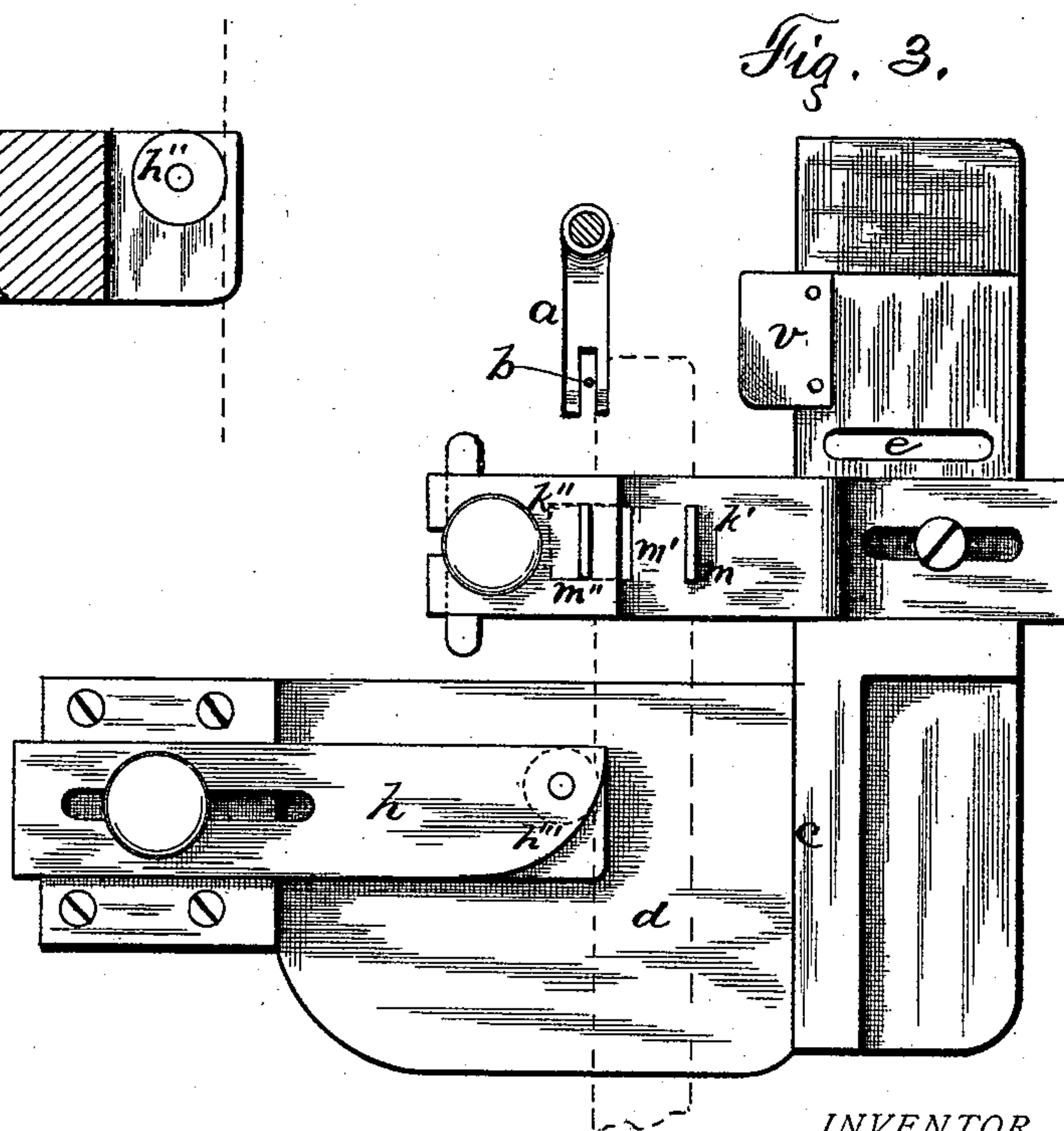


Fig. 3.

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(No Model.)

2 Sheets—Sheet 2.

L. S. CHAFFEE, Dec'd.

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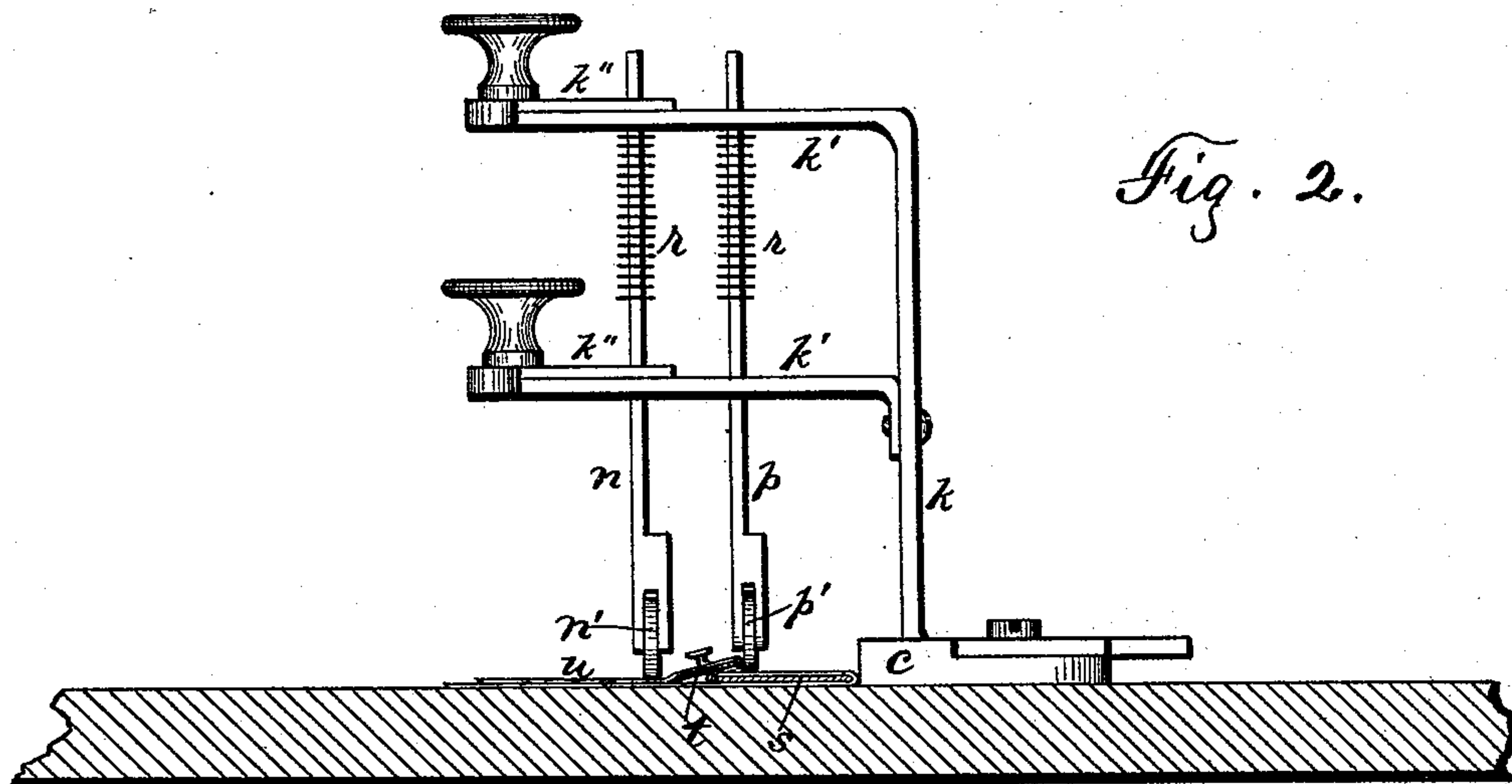


Fig. 2.

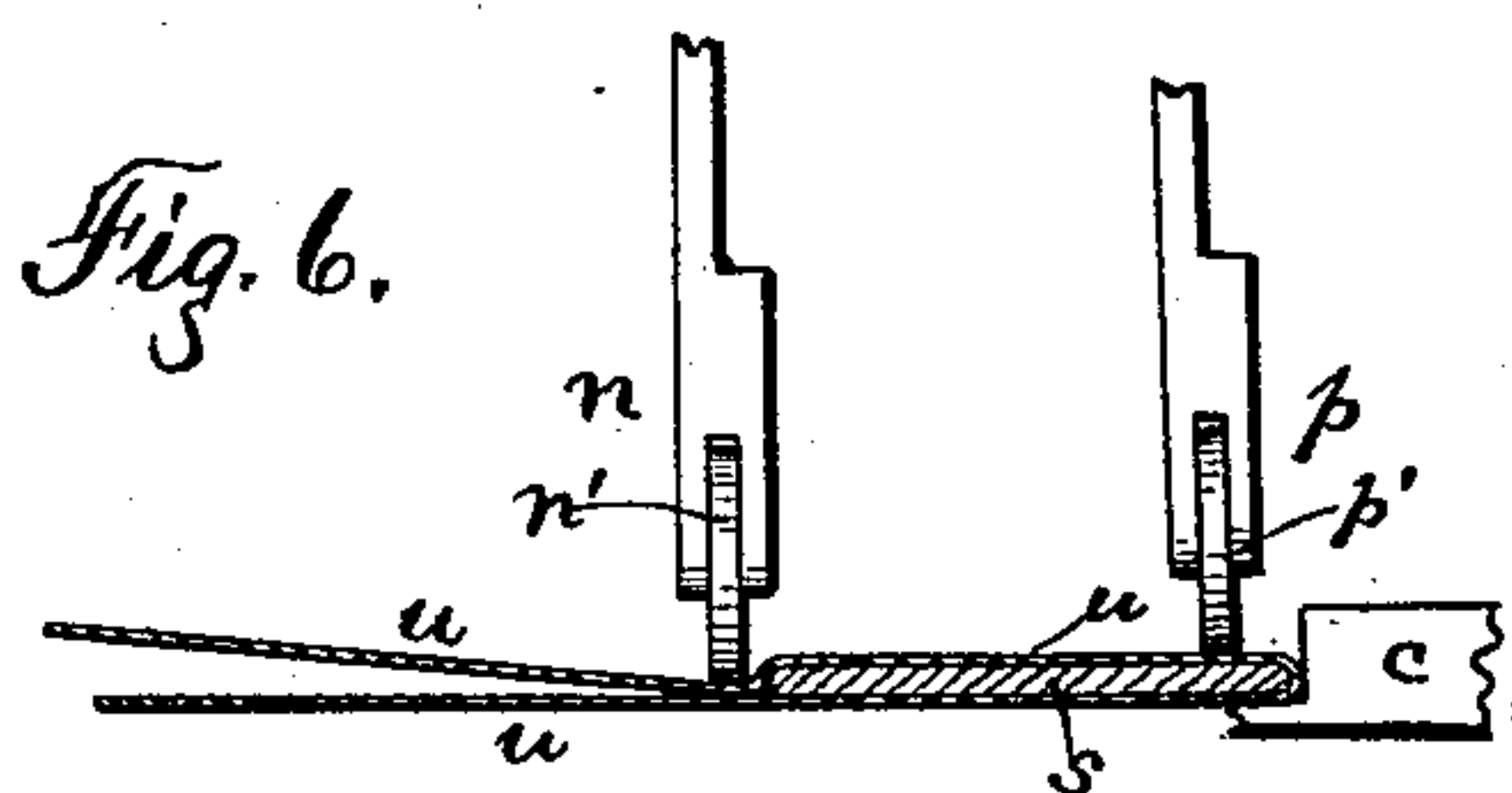


Fig. 6.

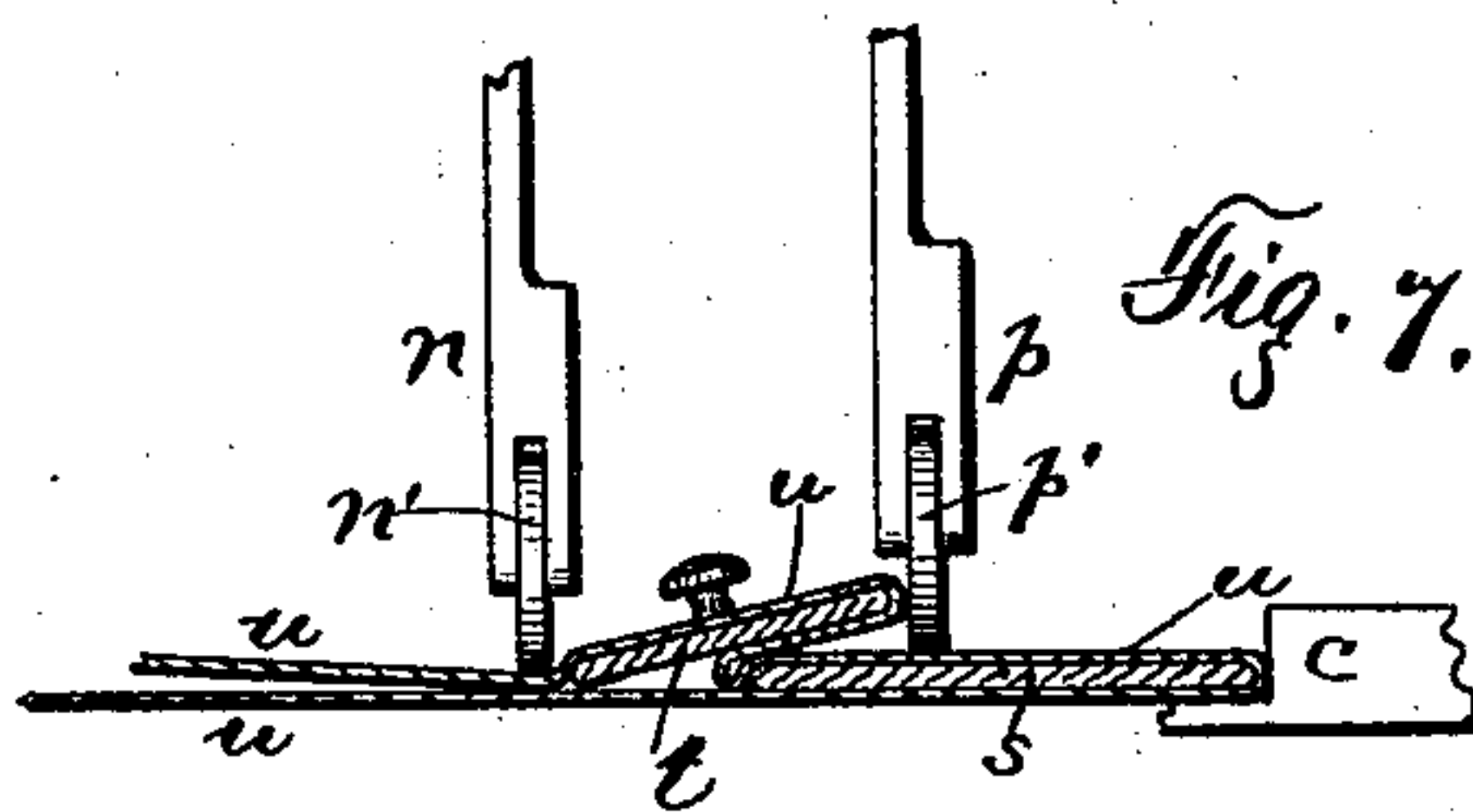


Fig. 7.

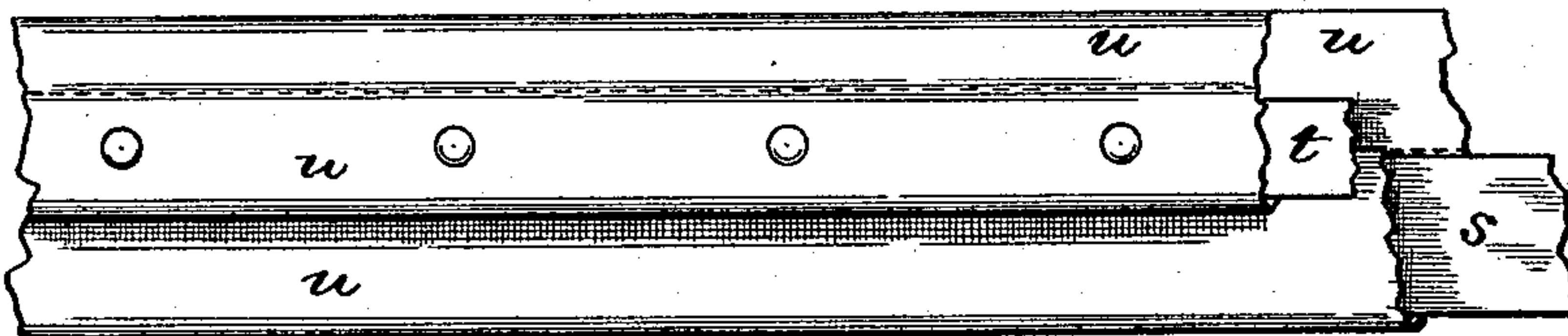


Fig. 8.

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UNITED STATES PATENT OFFICE.

LOUIS S. CHAFFEE, OF CORTLAND, NEW YORK; MARY H. CHAFFEE, ADMINISTRATRIX OF SAID LOUIS S. CHAFFEE, DECEASED, ASSIGNOR OF ONE-HALF TO HOMER E. RHEUBOTTOM, OF SAME PLACE.

GUIDING DEVICE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 486,821, dated November 22, 1892.

Application filed December 8, 1891. Serial No. 414,358. (No model.)

To all whom it may concern:

Be it known that I, LOUIS S. CHAFFEE, of Cortland, in the county of Cortland, in the State of New York, have invented new and useful Improvements in Appliances for Machines for Covering Corset-Clasps, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to sewing-machine attachments, and particularly to attachments designed to be used in sewing the steels, whether plain or button, or hooking steels into the fabric, and whether made with a single steel or with a double steel with the hinge action.

The object of my invention is to produce an attachment for sewing-machines by which any form or style of steel used in corset-making is securely held in place in the cloth while it is being stitched in, either in the pocket or in a fold, seam, or hem, and which can be used with a steel of any width, form, or length and adjusted as may be desired, and which is adapted to doubly guide the two steels when two steels are sewed in upon the front, one of which carries the buttons, and which are sewed into a single piece of cloth in separate folds thereof and are connected to create a hinge action in the front by the use of yielding presser-rollers adjustable jointly with reference to a stationary guide and separately with reference to each other, which hold the steels and cloth down upon the table, guide them, and hold them in the fold adjacent to the presser-foot and needle of the sewing-machine.

My invention consists in the several novel features of construction and operation hereinafter described, and which are specifically set forth in the claims hereunto annexed. It is constructed as follows, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of my attachment mounted upon the table of a sewing-machine in front of the presser-foot and needle. Fig. 2 is a front elevation of my attachment upon a sewing-machine table. Fig. 3 is a top plan view of my attachment. Fig. 4 is a front elevation of the guide for holding the

steel in the fold of the cloth in front of the presser-rolls. Fig. 5 is a top plan of the same, partly broken away to show the guide-roller. Fig. 6 is a front elevation of the presser-rollers operating at the edge of and upon a single steel. Fig. 7 is a like view of two presser-rollers in operation as when the second or button steel is being sewed into the auxiliary fold in the cloth to create the hinge connection between the two steels. Fig. 8 is a top plan of part of a corset front edge, broken away to show the two steels projecting from the cloth.

A is the table of the sewing-machine, *a* is the presser-foot, and *b* is the needle, all of which are of any ordinary construction. A guide *c* is secured upon the table adjustable toward or from the needle, and it is integral with a thin bed-plate *d*. The slot *e*, Fig. 3, is used in adjusting this guide and bed-plate.

Upon the opposite end of the bed I mount adjustably the auxiliary guide-arm *h*, provided with a horizontal groove *h'* in its inner end, in which a friction-roller *h''* is mounted. The upper arm *h'''* is cut away and rounded, substantially as shown in Fig. 3.

Upon the guide-plate the standard *k* is adjustably secured by a set-screw, as shown in Fig. 3, and is provided with the horizontal parallel arms *k'*, and each of these arms is provided with an adjustable slide *k''*. Each arm is also provided with a slot *m* and a rectangular aperture *m'*, and each slide is provided with a slot *m''*, which coincides with a part of the aperture *m'*, which the slide wholly or partially covers, as shown partially covered in Fig. 3. These slots *m* and *m''* operate as vertical guide-slots for the presser-bars *n* and *p*, which fit freely through them, and they carry the presser-rollers *n'* *p'* in their lower ends, while the springs *r* operate to hold the rollers in yielding contact with the table.

By adjusting the slides in or out the space between the rollers is varied, and by adjusting the standard in or out the distance of the rollers from the main guide is varied. All this adjustment is to adjust the rollers to steels of varying widths both between the rollers and between the outer roller and the main guide.

In sewing a single steel *s* the cloth *u* is folded

lengthwise, the steel inserted into the fold, and the cloth and steel are thus inserted, with one edge against the main guide, the other against the roller *h''* with one part of the cloth
 5 in the space between the guide-arm *h* and the other part above it, the steel fitting somewhat closely between these guides, and the steel and cloth are then passed under the presser-rollers, of which the inner one holds the cloth
 10 upon the steel and the whole down upon the table of the machine, and the other travels close along the edge of the steel in substantially the stitching-line, and draws the cloth down taut around and over the steel, and it
 15 is then stitched close to the edge thereof. In use, the presser-foot and needle are closer to this roller *n'* than is shown in the drawings. In fact, as close thereto as they can operate conveniently.

20 When I wish to stitch in two steels, one partly upon the other, after the first one is stitched in I again fold the upper part of the cloth over onto itself and insert the second steel *t* (shown in the drawings as provided
 25 with the buttons) into this fold, then pass the steels or cloth through between the guides, as shown in Fig. 4, without the cloth, then pass the cloth and steels under the rollers, as shown in Fig. 7, and stitch close along the
 30 edge of the steel *t*. This second line of stitching is then the hinge-line, upon which the steel *t* can be folded over off from the steel *s*, and in this construction the steel *s*, being the wider, operates as a body-protector in the
 35 usual manner. A flange *v*, secured upon the guide *c*, operates to hold the edge of the steel *s* down upon the edge opposite the needle and after it has left the presser-rollers.

Heretofore this stitching has been done
 40 without any edge guide or guides and with-

out any means to hold the work upon the table or to draw the cloth tightly over the steels, and has been inaccurate and unsatisfactory, besides being much slower, being wholly
 45 guided by the hands and eye of the operator.

It will be seen in Figs. 1 and 3 that the outer ends of arms *k'* are enlarged and provided with recessed bearings for slides *k''*, so as to prevent their lateral displacement, and that the remainder of said slides not in the
 50 seats simply lie upon the arms, and that the seats being shown as of the full width of the arms said slides are of the same width.

What I claim as my invention, and desire to secure by Letters Patent, is— 55

1. A sewing-machine attachment comprising a main guide, an adjustable standard mounted thereon, guide-arms secured thereto provided with openings, as shown, adjustable
 60 slides mounted on said arms, vertical presser-roller bars mounted in said arms and slides, and an auxiliary guide opposite to the main guide, in combination, as shown.

2. The combination, with the presser-foot, the needle, and the main and auxiliary guides, 65 of intermediate work-holding rollers, one in front of the needle and the other laterally separated therefrom and parallel thereto, both being mounted in vertically-movable bars, guided and adjustable laterally in arms 70 supported above the table, and springs around and connected to said bars and bearing against said arms and holding said rollers in vertically-yielding contact with the work.

In witness whereof I have hereunto set my 75 hand this 6th day of October, 1891.

LOUIS S. CHAFFEE.

In presence of—

C. W. SMITH,

HOWARD P. DENISON.