

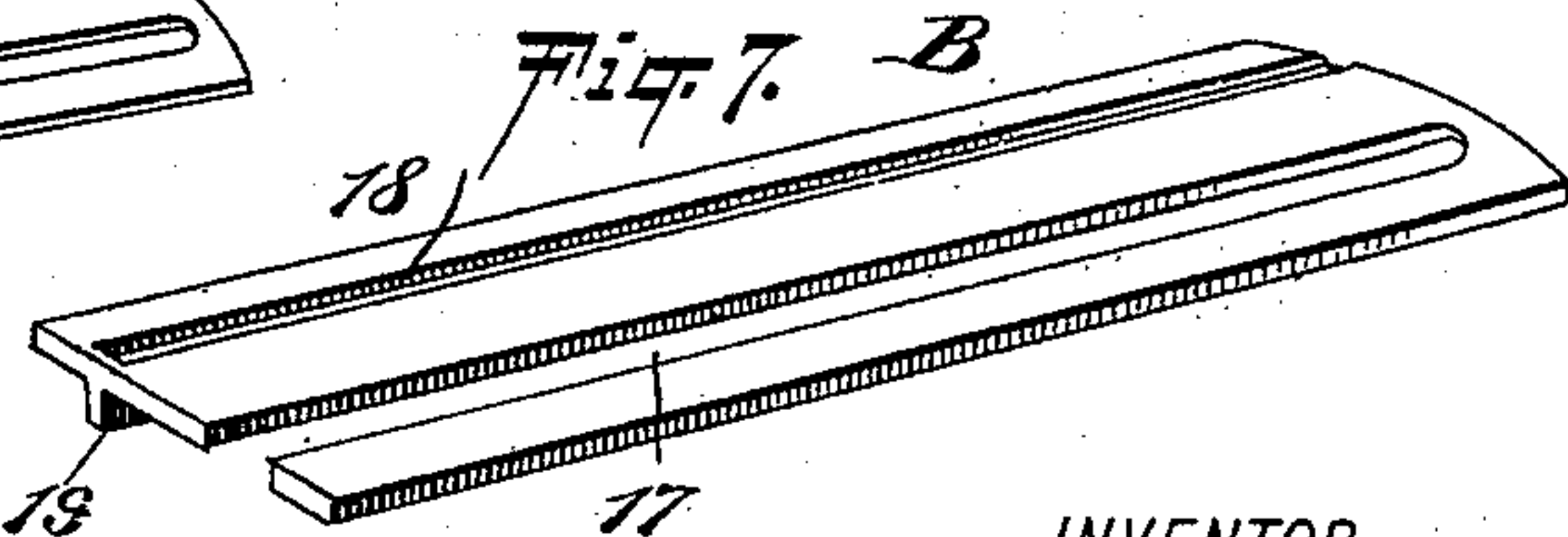
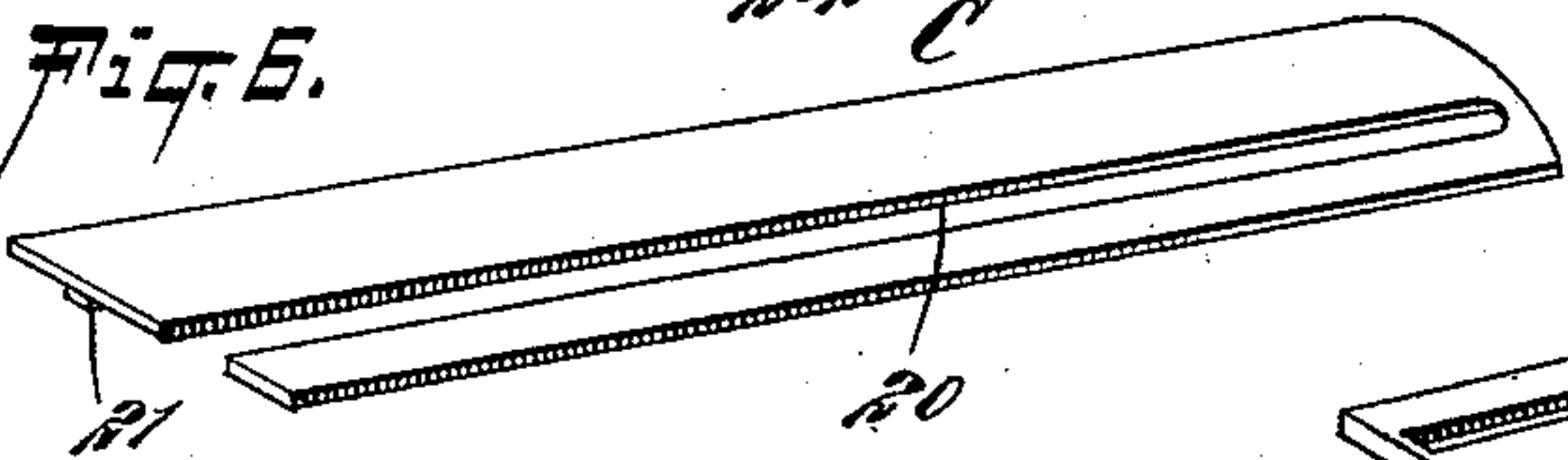
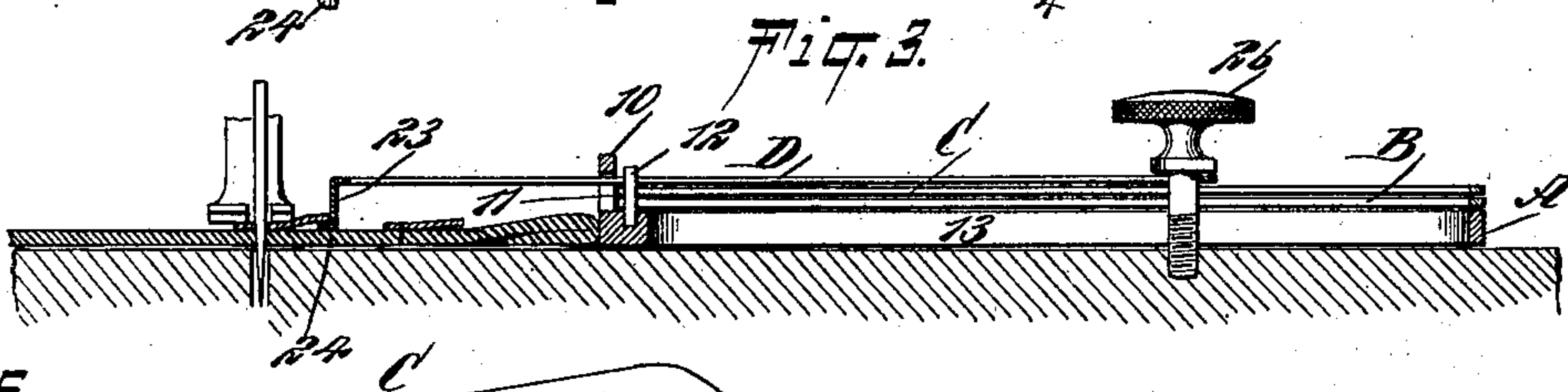
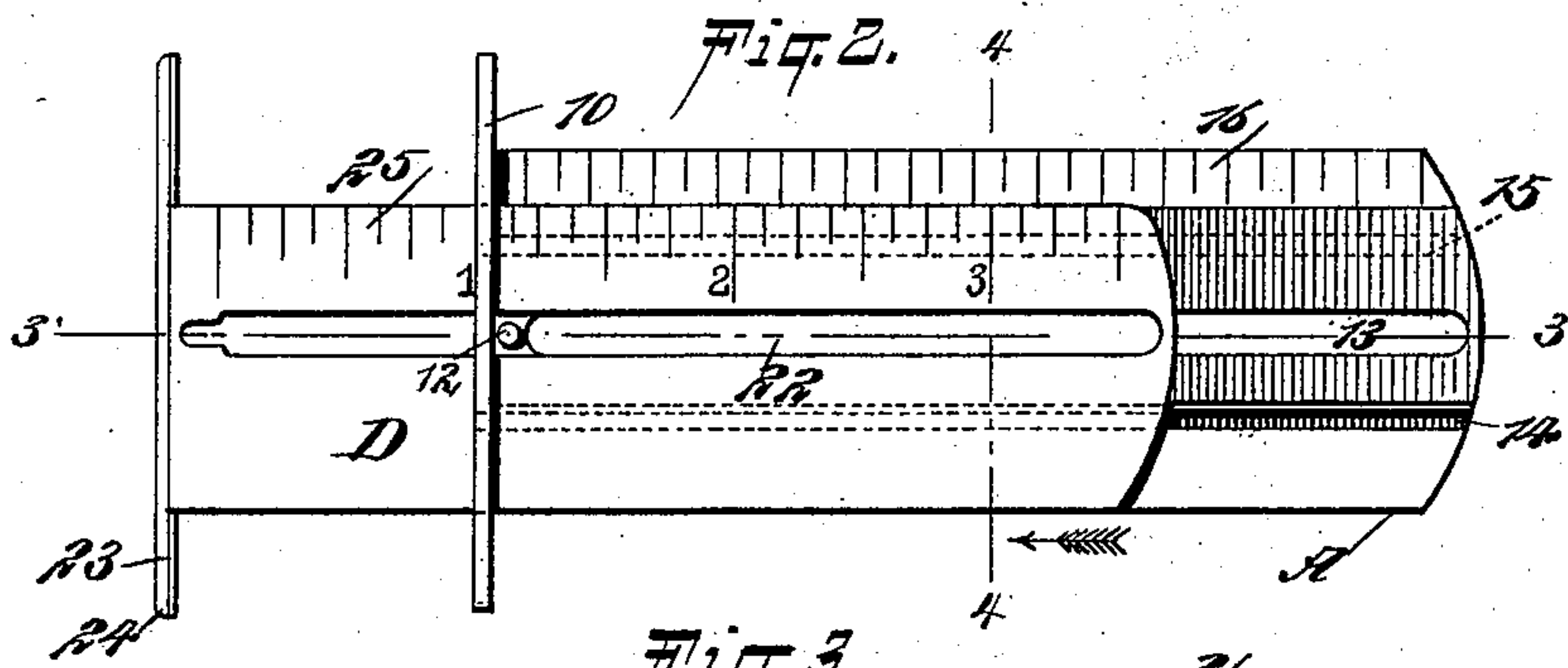
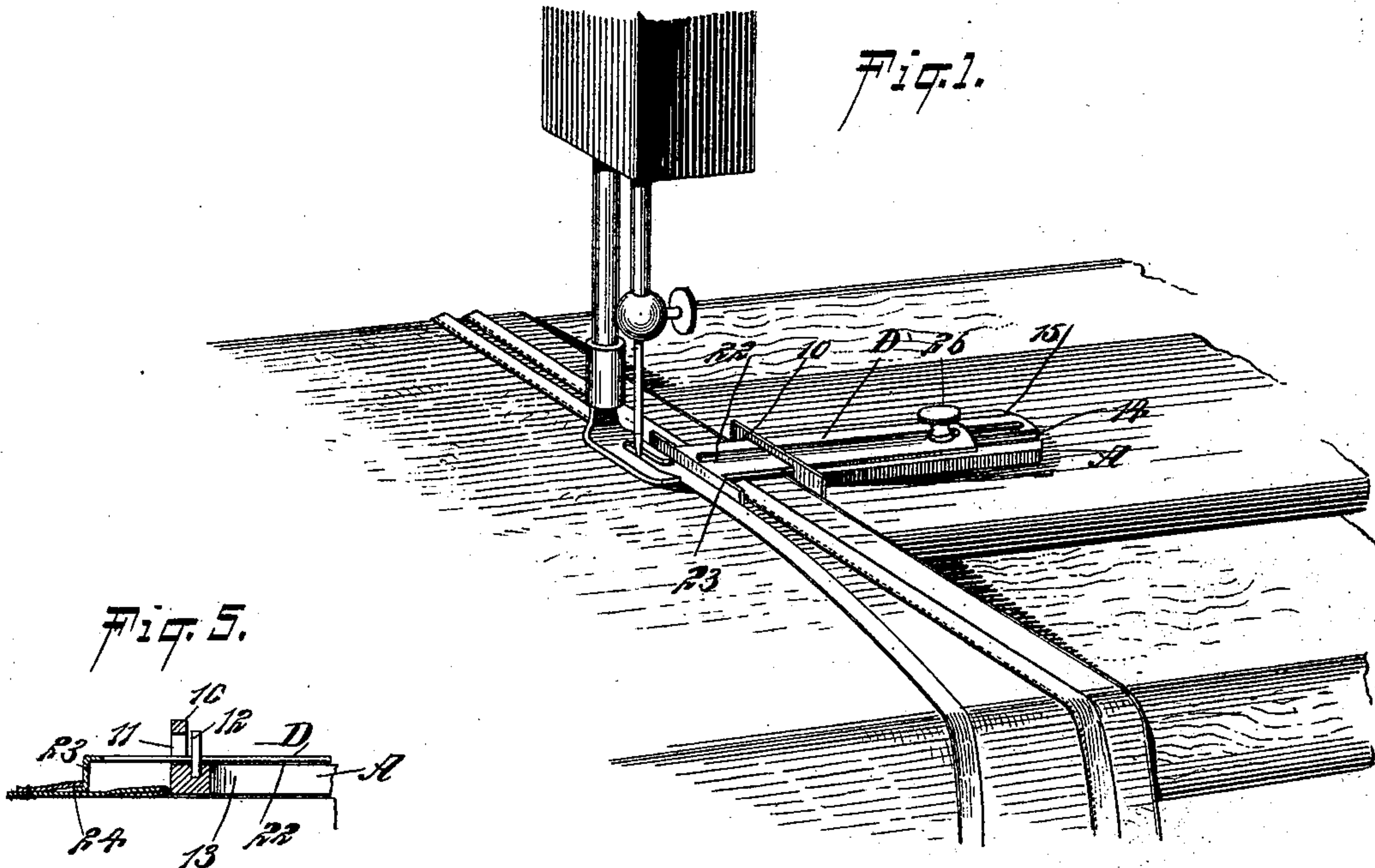
No. 620,418.

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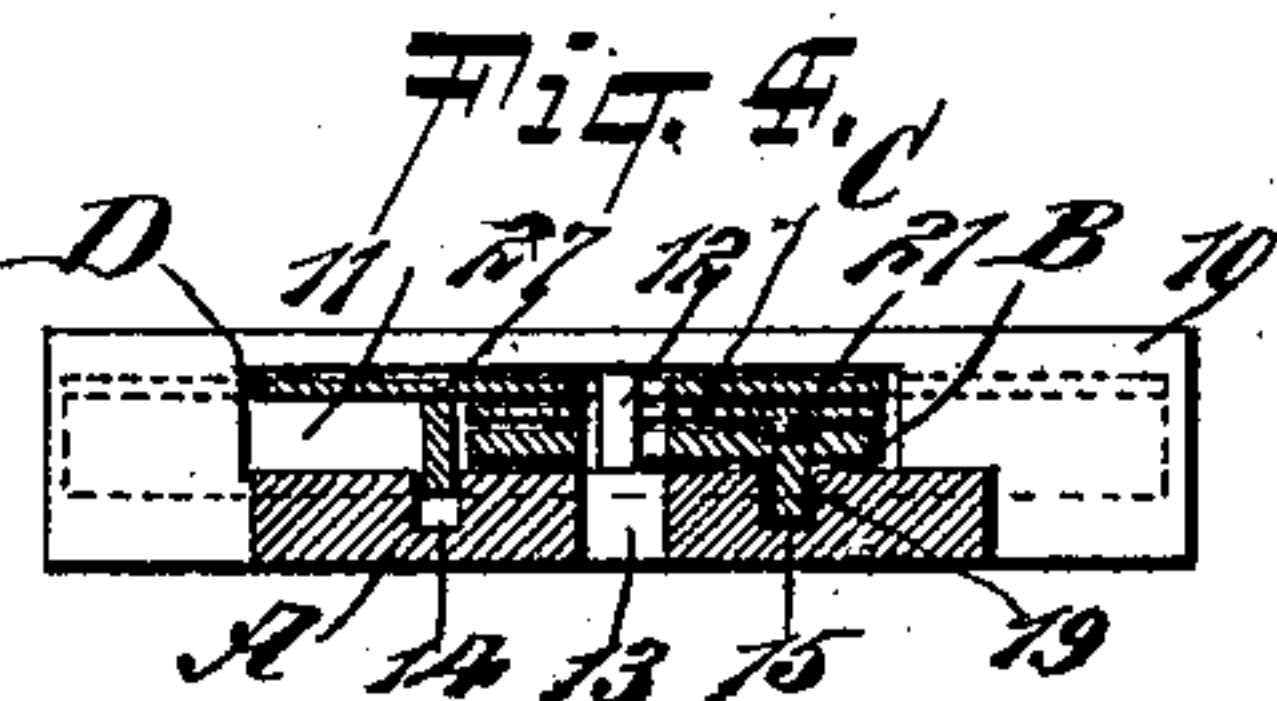
S. CHATFIELD.  
SEWING MACHINE ATTACHMENT.

(Application filed Sept. 7, 1898.)

(No Model.)



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

SUSAN CHATFIELD, OF NEW YORK, N. Y.

## SEWING-MACHINE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 620,418, dated February 28, 1899.

Application filed September 7, 1898. Serial No. 690,397. (No model.)

*To all whom it may concern:*

Be it known that I, SUSAN CHATFIELD, of the city of New York, borough of Manhattan, in the county and State of New York, have  
5 invented a new and Improved Sewing-Machine Attachment, of which the following is a full, clear, and exact description.

The object of the invention is to construct a gage for sewing-machines applicable to  
10 machines of any type and adapted to be held in position by a single adjusting-screw, the gage being especially adapted to guide and properly locate upon a fabric or other material ribbon, braid, or other trimming.

15 A further object of the invention is to so construct the gage that it may hold the trimming at various distances from the edge of the fabric and insure the trimming being sewed at predetermined points or throughout  
20 its length at a regular distance from the edge.

Another object of the invention is to so construct the device that it will be simple, durable, and economic and may be perfectly and conveniently adjusted and adapted for  
25 use on the thinnest gauze or on the thickest fabric.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.  
30

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

35 Figure 1 is a perspective view of the improved gage, the needle, needle-bar, and presser-foot of the machine, illustrating the relation of the gage to the material to be guided and to the presser-foot and needle.

40 Fig. 2 is a plan view of the gage, drawn on a larger scale than illustrated in Fig. 1, the position of the gage being the same as illustrated in Fig. 1. Fig. 3 is a longitudinal vertical section taken substantially on the line 3 3 of

45 Fig. 2. Fig. 4 is a transverse section taken substantially on the line 4 4 of Fig. 2. Fig. 5 is a detail sectional view of the forward portion of the device, illustrating the application of the guide-head to the trimming, the  
50 latter and the fabric to which it is attached being in section; and Figs. 6 and 7 are detail

perspective views of spacing strips or slides adapted to be used in connection with the device.

The base A of the gage is given any desired  
55 shape, but is preferably rectangular in cross-section, and is of greater length than width, and the said base A is provided at its forward end with a head-plate 10, vertically disposed, and the said head-plate is of such length that  
60 it extends beyond the sides of the base, as shown particularly in Figs. 1 and 2. The head-plate 10 is provided with a longitudinal opening 11 at its center, and said opening is practically of a length corresponding to the  
65 width of the base, while vertically the opening extends from the upper face of the base to a point near the top of the head-plate. This head-plate is adapted to engage with  
70 the edge of the fabric upon which the trimming is to be sewed, and in that sense serves as a guide.

At the central portion of the forward end of the base A, slightly at the rear of the head-plate 10, a pin 12 is secured to the base, as  
75 shown in Figs. 2 and 3, and a longitudinal slot 13 is centrally produced in the base, extending from a point near one end to a point near the opposite end, the pin 12 being in alinement with the longitudinal center of the  
80 said slot, as shown in Fig. 2.

In the upper face of the base A two longitudinal slots 14 and 15 are produced, one of which slots, the slot 14, extends through from one end to the other, while the other slot 15  
85 is open at the rear end of the base, but is closed at its forward end. The base is further provided upon its upper face, usually at its right-hand side, with a scale 16 in inches and fractions of inches, as is clearly shown  
90 in Fig. 2.

In addition to the base A two spacing-slides B and C are employed, these spacing-slides being adapted to accommodate the base of the device for fabrics of different thicknesses.  
95 Either one or both of the spacing-slides may be employed or neither of them may be used, as the character of the goods operated upon requires. In working upon thick goods the guide-head 23 should be supported at a higher  
100 elevation than when working upon thin goods. In the one case one or more of the spacing-



slides are used, while in the other neither are used, and the guide-head is thus adjusted in elevation to correspond with the thickness of the goods being operated upon.

5 The spacing-slide B, which is the first slide employed, is preferably made thicker than the second or uppermost slide C. The spacing-slide B is provided with a longitudinal slot 17, which extends through its forward  
10 edge, and when the slide is put in position on the base the slot 17 is adapted to register with the slot 13 of the base. The spacing-slide B is further provided in its upper face with a longitudinal groove 18, said groove being  
15 open at the rear end of the slide and closed at the forward end, as shown also in Fig. 7, while upon the bottom face of the spacing-slide B a longitudinal rib 19 is formed, which is usually located directly beneath the longitudinal groove 18. When the spacing-slide  
20 B is placed upon the base, the rib 19 is made to enter the groove 15 in the upper face of the base, and when the forward end of the rib 19 strikes the forward end wall of the said groove  
25 15 the spacing-slide B will be properly located and cannot be withdrawn from the base in a forwardly direction, but may be readily removed in a rearwardly direction.

30 The second spacing-slide C is provided with a slot 20, corresponding to the slot 17 of the spacing-slide B, the two slots being adapted to register, and the slide C is further provided with a rib 21 upon its under face, adapted to enter and slide in the groove 18 in the slide  
35 B. (Shown in Fig. 7 and as illustrated in Fig. 4.)

40 The main slide, or that which is adapted to gage the trimming, is designated as D and may be employed together with either of the spacing-slides or independently of both of said slides, the gage-slide D being adapted when neither of the spacing-slides are used to move upon the upper face of the base A. This gage-slide D is of such width that it may  
45 be readily passed through the opening 11 in the head-plate 10 and is provided with a longitudinal slot 22, which does not extend through either end of the slide. The said gage-slide is also provided at its forward end  
50 with a vertical guide-head 23, which is in the nature of a plate and extends beyond the sides of the slide and in a downwardly direction therefrom, and at the lower edge of the guide-head 23 a longitudinal flange 24 is located,  
55 which is adapted in practice to be passed beneath the trimming to be guided, as shown in Fig. 5. The pin 12 of the base passes through the slots 17 and 20 in the spacing-slides when used and through the slot 22 in the gage-  
60 slide D.

65 The gage-slide D is provided at its right-hand edge with a scale 25, corresponding in whole and in fractional parts with the scale 16 on the base. In order to attach the gage to the bed of the sewing-machine, a single set-screw 26 only need be employed, which is

made to enter a suitable aperture in the bed and pass through the longitudinal slots in the various members of the device.

70 In operation the head-plate is adjusted so as to engage with the edge of the fabric, as shown in Fig. 1, while the guide-head 23 of the guide-slide D is made to engage with the outer edge of the trimming, the inner edge of the trimming being in such position that  
75 it may be stitched to the fabric by the needle of the machine, as illustrated also in Fig. 1.

80 It is evident that the simple and economic form of gage above described may be attached to any machine and may be expeditiously and conveniently manipulated to direct and locate trimming of any width on a fabric, provided the trimming is within the range of the adjustment of the device, and said range may be increased or diminished, as may be deemed  
85 advisable in the manufacture of the article.

90 The main or gage slide D is guided in its movement on the base preferably by locating a stud 27 upon the under face of the guide-slide, the said stud being adapted to travel in the groove 14 of the base, as shown in Fig. 4.

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

95 1. A sewing-machine attachment comprising a base securable to the machine-table and having a guiding-surface engaging the edge of the material being operated on, and a second guide supported from the base and adjustable thereon toward and from the needle  
100 position and extending over the work, spacing-plates insertible between the base and slide, said parts being provided with registering and intermeshing grooves and ribs extending in the direction of the adjustment of  
105 the guide and forming guides therefor, substantially as described.

110 2. A sewing-machine attachment comprising a base having a slot therein and a clamping-screw in the slot whereby it may be adjusted toward and from the needle position, a head-plate upon one end of said base having a slide-receiving slot, and forming an edge-guide, a gage or slide projecting through  
115 the slot in the head-plate and having a slot embracing the clamping-screw, a stop within said slot limiting its adjustment, the base and slide having intermeshing ribs and slots controlling their direction of motion, and a guide  
120 head or gage carried above the work by the end of said slide which is toward the needle, substantially as described.

125 3. In a trimming-gage for sewing-machines, the combination with a base provided with a central slot, grooves at each side of said slot, a head-plate having an opening therein, a stop adjacent to the head-plate at one end of the central slot, a slide having guided movement on the base-plate, the said slide being  
130 provided with a slot adapted to register with the central slot of the base and receive the aforesaid stop, and a guide-head attached to



the outer end of the said slide, which guide-  
head is arranged to engage with the head-  
plate when the slide is drawn fully inwardly  
on the base, of spacing-slides, each spacing-  
5 slide being provided with a slot adapted to  
register with the slots in the main slide and  
base, one slide being provided with a groove  
upon its upper face and with a rib upon its

under face, the other spacing-slide being pro-  
vided with only a rib upon its under face, as 10  
and for the purpose set forth.

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Witnesses:

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