

No. 884,482.

PATENTED APR. 14, 1908.

C. T. E. GOULD.
SEWING MACHINE BED PLATE OR WORK SUPPORT.

APPLICATION FILED APR. 3, 1905. RENEWED JULY 17, 1907.

3 SHEETS—SHEET 1.

Fig. 1.

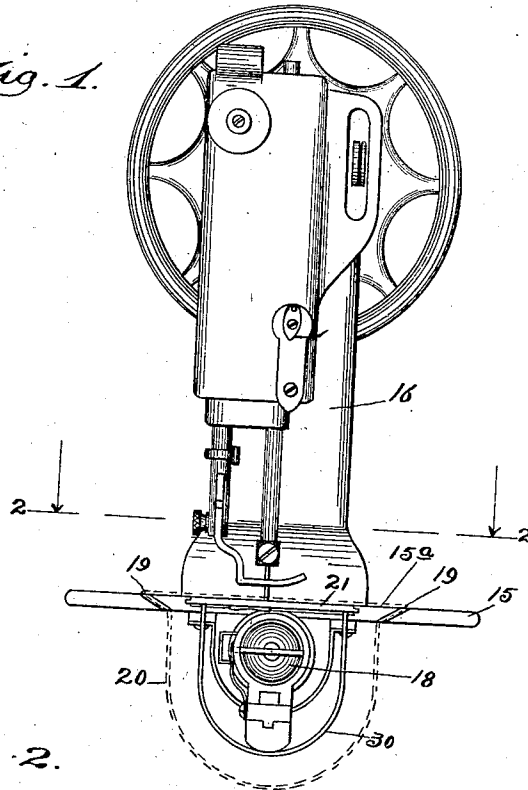
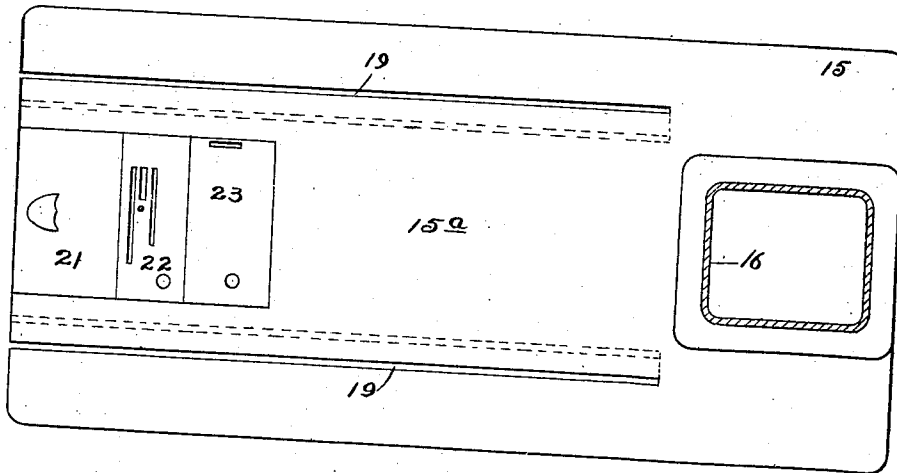


Fig. 2.



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3 SHEETS—SHEET 2.

Fig. 3.

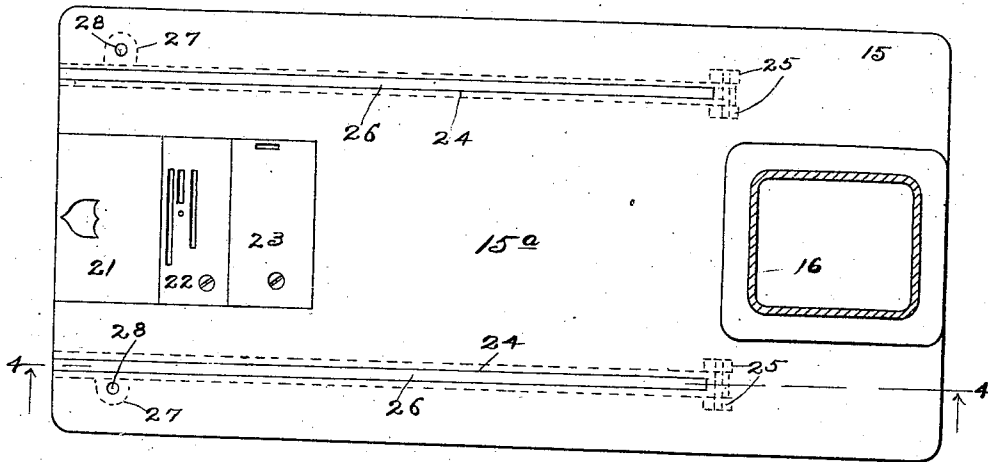


Fig. 4.

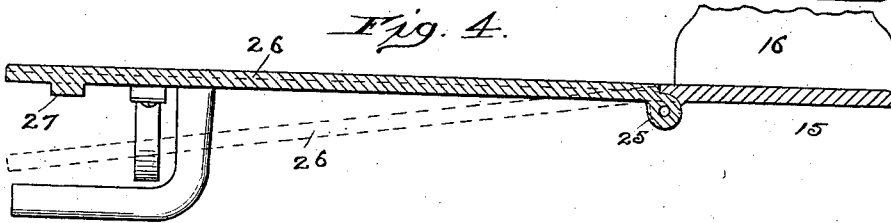


Fig. 5.

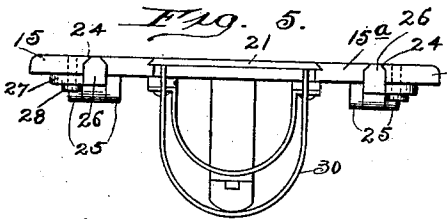


Fig. 6.

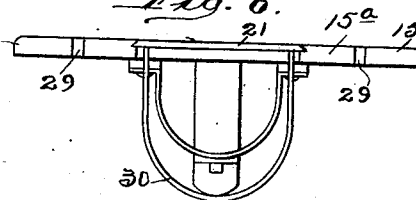


Fig. 7.

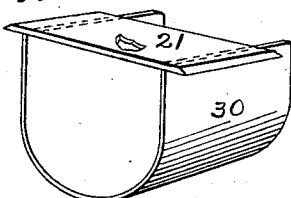
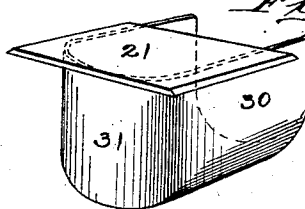


Fig. 8.



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3 SHEETS—SHEET 37

Fig. 9.

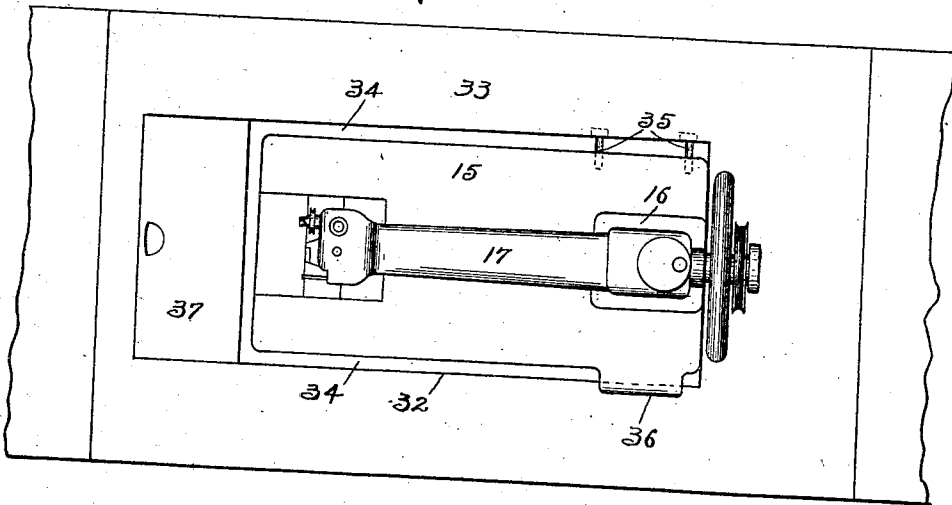


Fig. 10.

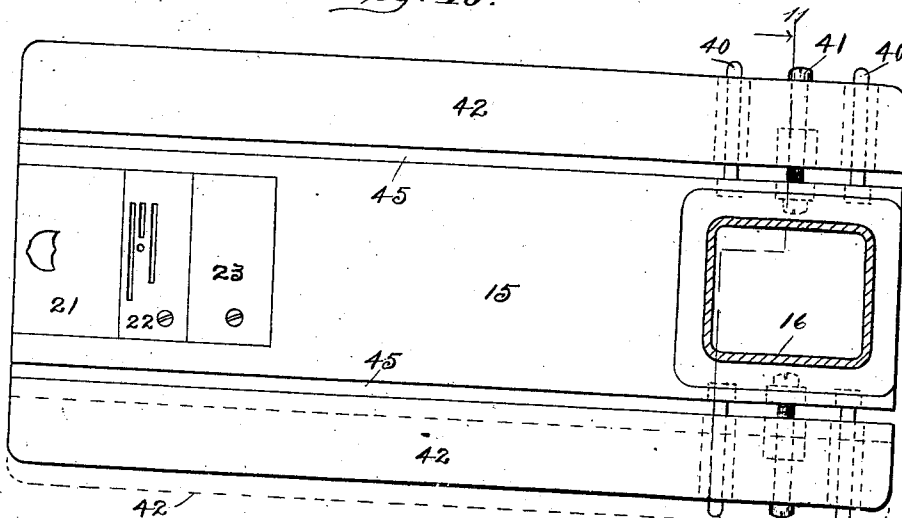
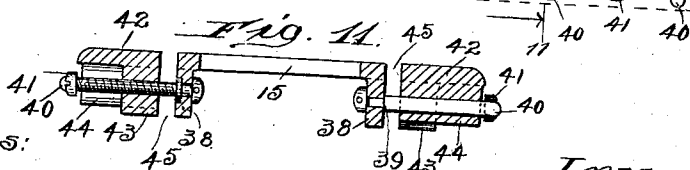


Fig. 11.



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UNITED STATES PATENT OFFICE.

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SEWING-MACHINE BED-PLATE OR WORK-SUPPORT.

No. 884,482.

Specification of Letters Patent.

Patented April 14, 1908.

Application filed April 3, 1905, Serial No. 253,430. Renewed July 17, 1907. Serial No. 384,273.

To all whom it may concern:

Be it known that I, CHARLES T. E. GOULD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sewing-Machine Bed-Plates or Work-Supports, of which the following is a specification.

This invention relates to improvements in sewing-machines of the various types, and appertains more particularly to the construction of the bed-plates thereof, and it consists in certain peculiarities of the construction, novel arrangement and operation of the various parts thereof as will be hereinafter more fully set forth and specifically claimed.

The principal object of the invention is to provide means in the bed-plate of a sewing-machine whereby circular garments, such as sleeves, bands, stockings and the like which are insufficient in size to encompass the entire bed-plate, or bed-plate and table on which the sewing-machine rests, or other article, may be easily and properly presented to the needle and sewing mechanism of the machine.

Another object of the invention is to so construct the bed-plate that the sizes of the slots formed therein for the reception and passage of the garments or articles may be regulated so as to adapt them for different thicknesses of the article being sewed, as well as to provide means in some instances for closing said slots.

Other objects and advantages of the invention will be disclosed in the subjoined description and explanation.

In order to enable others skilled in the art to which my invention pertains, to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1, is an end view of the head and bed-plate of a sewing-machine, embodying one form of my invention, and looking in the direction of the face plate of the machine, and illustrating by dotted lines, a circular garment in position ready to be sewed. Fig. 2, is a plan view, partly in section, taken on line 2, 2, of Fig. 1, looking in the direction indicated by the arrows. Fig. 3, is a similar view, taken on the same line, but showing a modification in the construction of the bed-plate. Fig. 4, is a longitudinal sectional view, taken on line 4, 4, of Fig. 3, looking in the direction indicated by the arrows. Fig.

5, is a front end view of the construction shown in Fig. 3. Fig. 6, is a similar view, showing still another modification in the construction of the bed-plate. Fig. 7, is a detached perspective view of one form of a protector for the sewing mechanism. Fig. 8, is a similar view of like parts, showing a modification in the construction of the protector. Fig. 9, is a plan view of a portion of a sewing machine table, showing another modification in the construction of the bed-plate. Fig. 10, is a plan view of the bed-plate showing a still further modification. And Fig. 11, is a cross sectional view thereof, taken on line 11 11, of Fig. 10, looking in the direction indicated by the arrows.

Like numerals of reference refer to corresponding parts throughout the different views of the drawings.

The reference numeral 15, indicates the bed-plate of a sewing-machine which may be made of any suitable size, form, and material, but preferably of metal, and rectangular in shape, as shown in the different views of the drawings. Mounted on the rear portion of the upper surface of the bed-plate is a head 16, and arm 17, of the ordinary or any preferred construction, which support the needle operating mechanism as well as other parts of the machine which form no part of my present invention, and which it is unnecessary here to describe. Mounted on the lower front portion of the bed-plate, is the feeding and shuttle operating mechanism 18, which may be of the ordinary or any preferred construction, but in the present instance is shown as of the rotary type. On each side of the central portion 15^a, of the bed-plate, is formed therein a longitudinal slot 19, each of which extends from near the head 16, through the front end of the bed-plate, and have their front ends open to receive the garments or article 20, to be sewed.

In Figs. 1, and 2, of the drawings, I have shown each of the slots 19, as being inwardly and downwardly inclined, but it is evident that I may incline them in the opposite direction, or may so form them in the bed-plate that the walls of each slot will be vertical, without departing from the spirit of my invention.

The front part of the central portion 15^a, of the bed-plate may be provided as usual, with a removable plate 21, to permit of access to the shuttle and feed-operating mechanism.

anism, and may also have the slotted plate 22, for the feeder and needle, as well as another plate 23, which is also removable.

Instead of forming the bed-plate with the inclined slots 19, as shown in Figs. 1, and 2, of the drawings, and above described, I may provide it with parallel slots 24, contracted at their upper portions, which as in the outer construction, will extend from near the head 16, to and through the front end of the bed-plate. On the lower surface of the bed-plate at the inner or rear end of each of the slots 24, is pivotally secured on downwardly projecting lugs 25, a bar 26, which is reduced on its upper portion to fit snugly in the contracted portion of the slot 24, thus closing said slots and rendering the upper surface of the bed-plate smooth and level. Each of the bars 26, is provided near its front end with a laterally extending apertured lug 27, to receive a set screw 28, used for securing the bars 26, in their raised positions, or so as to close the slots 24, and to thus render them invisible.

In Fig. 6, of the drawing, I have shown the bed-plate 15, as being provided on each side of the central portion 15^a, thereof, with a slot 29, having its walls vertically located in the bed-plate and in parallelism with one another. In this view, as well as in Figs. 1, 5, and 7, I have shown a protector for the feeding and shuttle operating mechanism, which comprises a circular piece 30, of sheet metal or other suitable material, which is secured to the lower surface of the removable plate 21, which when in position, will surround the aforesaid mechanism, as is clearly shown in Fig. 1, so as to shield the same from entanglement with the garment or article being sewed, and which will also protect the garment or article from the oil used to lubricate said mechanism. In the last named views, the ends of the circular piece or casing 30, is shown as being open, but I may form it with its front end closed as at 31, in Fig. 8 of the drawings.

In Fig. 9, is illustrated another modification in the construction of the bed-plate which I may sometimes employ and which consists in mounting the same within an opening 32, of the table 33, so that there shall be spaces 34, on each side of the bed-plate for the reception and passage of the garment or article to be sewed. In the modification now under consideration, the rear portion of the bed-plate 15, is secured to the table 33, by means of hinges 35, which are located near one of the side edges of the opening 32, in said table. On the opposite side from the hinges 35, the bed-plate is provided with an extension 36, to rest on the upper surface of the table, thereby in conjunction with the hinges 35, forming supports for the rear portion of the bed-plate while the front portion thereof is left free. Located in the front end

of the opening 32, is a box 37, which may be removed when desired, so as to form an opening in front of the bed-plate, for the reception of a portion of the garment or article to be sewed.

In Figs. 10 and 11, I have shown still another modification in the construction of the bed-plate, which consists in providing its rear portion on each of its sides with a downwardly extending flange 38, each of which is provided with a number of horizontal openings 39, for the reception of a series of supporting bolts 40, and adjusting screws 41, which are swiveled at their inner ends on the flanges 38, of the bed-plate. Located on each side of the bed-plate 15, is an adjustable plate 42, each of which has on its lower rear portion apertured enlargements 43, and 44, for the reception and operation of the adjusting screws and supporting bolts respectively. By reference to Fig. 10, it will be observed that two of the supporting bolts 40, are employed on each side of the bed-plate to support the adjustable plates 42, and that the adjusting screws 41, are located between said bolts. By turning the screws 41, in the proper direction, it is evident that as they are in threaded engagement with the enlargements 43, on the plates 42, and are swiveled on the extensions 38, of the bed-plate, they will cause the adjustable plates 42, to be advanced and retracted so as to diminish or increase the size of the slots 45, formed between the inner edges of the plates 42, and the edges of the bed-plate so as to permit of the passage of thin and thick garments or articles. It is also apparent, that by turning the screws 41, in the proper direction, the slots 45, may be entirely closed, thus forming a bed-plate of a smooth and virtually unbroken surface.

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

1. The bed-plate of a sewing-machine having on each side of the sewing and feeding mechanism a longitudinally extending way for the reception and passage of the article or garment to be sewed, each of said ways being inwardly and downwardly inclined, substantially as described.

2. The bed-plate of a sewing-machine having on each side of the sewing and feeding mechanism a longitudinally extending way for the reception and passage of the garment or article to be sewed, and means to open and close said ways, substantially as described.

3. The bed-plate of a sewing-machine having on each side of the sewing and feeding mechanism a longitudinally extending slot contracted at its upper portion, a bar having its upper portion reduced and pivotally secured to the lower surface of the bed-plate at the inner end of each of said slots, and means near the front end of each of said bars

to detachably secure it to the bed-plate, substantially as described.

4. A sewing-machine work support provided with a way extending longitudinally
5 on each side of the feeding and sewing mechanism for the reception and passage of the article or garment to be sewed, and a re-

movable protector encompassing said mechanism, substantially as described.

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