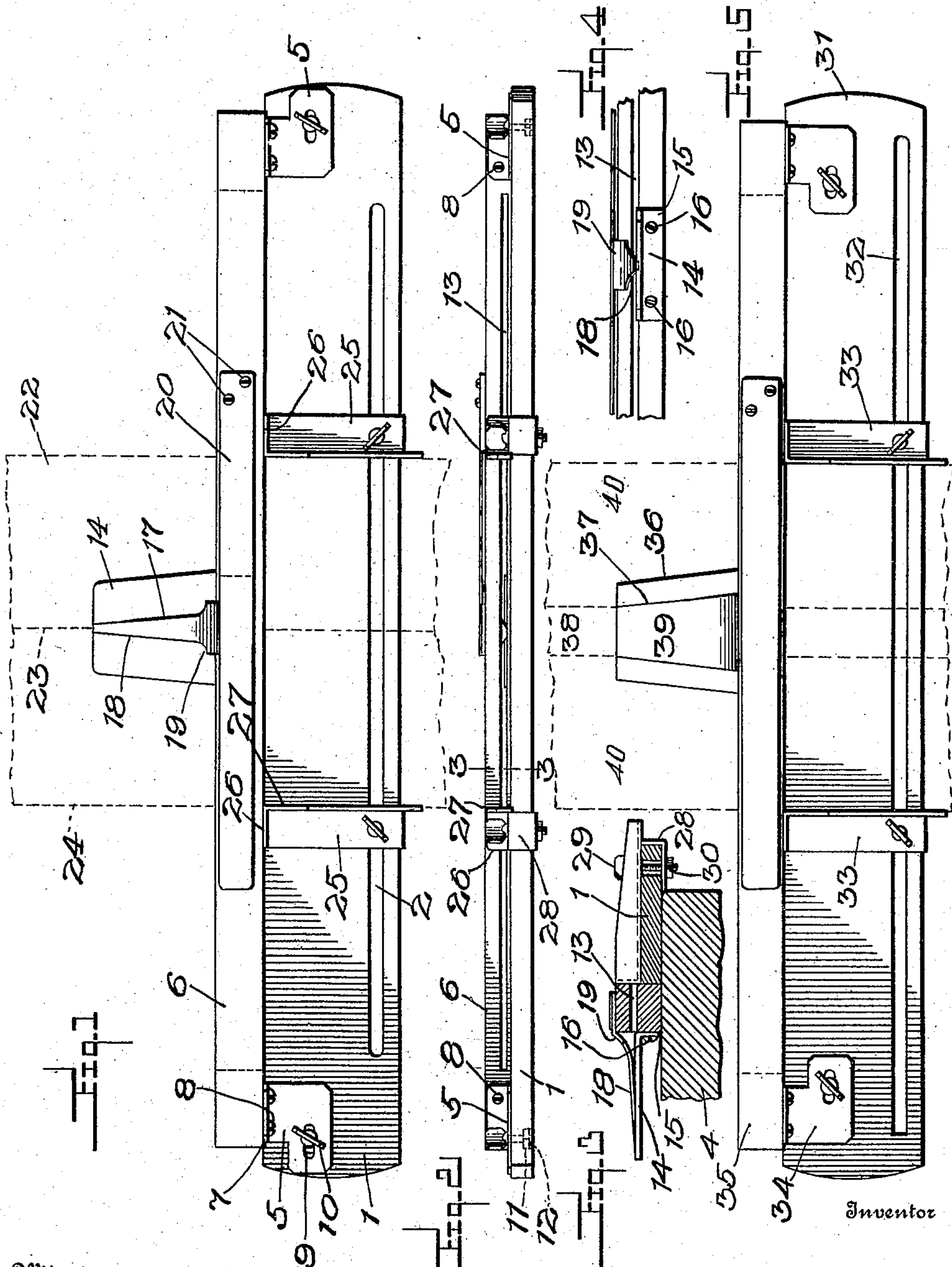


W. A. FOX.
GUIDING DEVICE FOR SEWING MACHINES.
APPLICATION FILED JULY 6, 1908.

915,761.

Patented Mar. 23, 1909.



Witnesses

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GUIDING DEVICE FOR SEWING-MACHINES.

No. 915,761.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILBER A. FOX, a citizen of the United States, residing at Potsdam, in the county of St. Lawrence and State of New York, have invented certain new and useful Improvements in Guiding Devices for Sewing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to new and useful improvements in guide devices for stitching machines and it is an object of the invention to provide a novel device of this character whereby goods may be properly fed, as to a hemstitcher.

It is also an object of the invention to provide a novel device of this character which may be employed with goods of various widths.

20 It is also an object of the invention to provide a novel device of this character including yielding means acting in conjunction with a seam of the goods for guiding the goods.

25 It is also an object of the invention to provide a novel device of this character wherein the guiding means can be moved or adjusted properly to position the guiding means with relation to the stitching mechanism.

30 It is also an object of the invention to provide a novel device of this character which will be simple in construction, efficient in practice and comparatively inexpensive to manufacture.

35 In describing the invention in detail, reference will be had to the accompanying drawings forming a part of this specification wherein like characters of reference denote corresponding parts in the several views and in which—

40 Figure 1 is a plan, the goods operated upon being indicated by dotted lines. Fig. 2 is a front elevation. Fig. 3 is a cross section on the line 3—3 of Fig. 2. Fig. 4 is a fragmentary view in rear elevation; and Fig. 5 is a view similar to Fig. 1 but illustrating a slightly modified form of the invention.

45 In the drawings 1 denotes an elongated base-plate provided with a longitudinal slot 2 which is adjacent the forward edge of the plate 1. The base-plate 1 is adapted to rest on the table 4 of a sewing-machine and to be securely held thereon by any desired means,

preferably by the well known form of clamp (not shown).

55 Held by the brackets 5 in close proximity to the rear edge of the base-plate 1, is a strip 6, the lower edge of which is approximately flush with the under-surface of the base-plate 1, while its upper surface lies above the top of the base-plate 1. The brackets 5 are angular or L-shaped and through the flange- 60 portions 7 pass the screws 8 which secure the brackets to the strip 6. The foot of each of the brackets 5 is provided with a slot 9 extending longitudinally of the plate 1 and through this slot 9 passes the shank of a wing-screw 10. This binding-screw 10 en- 65 gages a nut 11 held against rotation within a recess 12 in the bottom of the base-plate 1 (see dotted lines in Fig. 2). By having the brackets 5 provided with the slots 9, an ad- 70 justment of the bar 6 may be had longitudinally of the plate 1, this adjustment being for a purpose to be hereinafter referred to.

75 The strip 6 is provided with a slot 13 extending almost the entire length thereof, the lower wall of the slot being adjacent the top of the plate 1 and substantially flush therewith. Projecting rearwardly from the strip 6 and centrally thereof is a ledge or shelf 14 the upper surface of which is substantially flush with the lower wall of the slot 13. This guide-plate or shelf 14 may be secured to the strip 6 in any manner; but as shown in the 80 drawings, it is provided with a depending angular portion or ear 15 through which passes the retaining screw 16. The upper surface of the guide-plate or shelf 14 is provided with a groove or channel 17 running at right angles to the strip 6 and the walls of the channel converge rearwardly with relation to the strip 6. Fitted within the channel 17 is a finger 18 the base 19 of which is bent up- 85 wardly and is carried at the center of a leaf-spring 20 arranged longitudinally of the strip 6 and secured to the top thereof by the screws 21. This spring 20 holds the finger 18 normally seated within the channel 17.

90 This guide is intended primarily to be employed with fancy work. A piece of ham- 95 burg 22 of any width is seamed, as at 23, to a piece of muslin 24 making a continuous seamed strip. The latter is then passed through the slot 13 with its seam 23 in the channel 17 beneath the finger 18. The strip 105

6 is then adjusted longitudinally through the medium of the slots 9 in the bracket 5 to bring the groove 17 of the guide-plate 14 in alinement with the stitching mechanism of a sewing-machine, as of a hemstitcher. The tension of the spring 20 on the finger 18 holds the seam in the channel 17 and thus assures proper feed of the fabric to the hemstitcher.

In order to facilitate the feeding of the seamed strip, the adjustable gages 25 are employed, said gages being intended to contact with the opposite longitudinal edges of the fabric. Each of these gages 25 is provided with end flanges 26 which abut against the strip 6 and with flanges 27 which extend transversely of the base-plate 1. These flanges 27 project slightly beyond the forward edge of the base-plate 1. The front end portion of each of the gages 25 is bent back upon itself, as at 28, to straddle the forward edge portion of the plate 1, said bent portions 28 crossing the slot 2. Passing through the slot 2, the gage 25 and the bent portion 28 thereof is a winged clamping-screw 29 which engages the nut 30 for holding the gage in its desired position.

In Fig. 5 is illustrated a slightly modified form of the invention which is intended to be employed in making an ornamental stitch in the center of a strip of fabric interposed between strips of lace. The strip of muslin 38 is inserted between pieces of lace 40 to which the strip 38 is sewed. A seam is made on each side of the strip of muslin 38 by sewing it to the lace 40. The shelf 36 is provided with a groove 37 the walls of which converge rearwardly and the rear end of which is of sufficient width to accommodate the strip 38. The latter is held in the channel 37 by means of the spring-pressed finger 39 and the seams at its sides aid in guiding the strip 38 to the hemstitcher, which forms a hem-stitch or a fancy stitch down the center of the strip 38.

It will be obvious that the width of the groove or channel 37 in the shelf 36 may be varied so that the groove will accommodate strips 38 of different widths.

I claim:

1. In a guiding device for sewing machines, the combination of a base-plate; a slotted strip mounted thereon; a grooved-shelf carried by said strip; and a device adapted to hold the work in the groove of said shelf. 50 55

2. In a guiding device for sewing machines, the combination of a base-plate; a strip adjustably mounted thereon and formed with a slot for the passage of the goods; a grooved-shelf carried by said strip; and a device for holding the work in the groove of said shelf. 60

3. In a guiding device for sewing machines, the combination of a base-plate; a strip mounted thereon and formed with a slot; a shelf carried by said strip and formed with a groove; and a spring-pressed finger for holding the goods in said groove. 65

4. In a guiding device for sewing machines, the combination with a base-plate, of a strip mounted thereon and formed with a slot; a shelf carried by said strip and formed with a groove, the walls of which converge outwardly from said strip; and a device for holding the goods in said groove. 70 75

5. In a guiding device for sewing machines, the combination with a base-plate, of gages mounted thereon; a strip carried by said base-plate; a shelf carried by said strip and formed with a groove for the passage of the goods; and a device for holding the goods in said groove. 80

6. The combination with a base-plate and a strip carried thereby, of a shelf carried by said strip and formed with a groove for the passage of the goods; and a device for holding the goods in said groove. 85

In testimony whereof I have hereunto set my hand this 1st day of July, 1908, in the presence of the two undersigned witnesses at said Potsdam. 90

WILBER A. FOX.

Witnesses:

FRANK L. CUBLEY,
WM. H. BROWN.