

J. S. FINCH.
CLOTH PRESSER FOR SEWING MACHINES.
APPLICATION FILED MAY 10, 1911.

1,025,460.

Patented May 7, 1912.

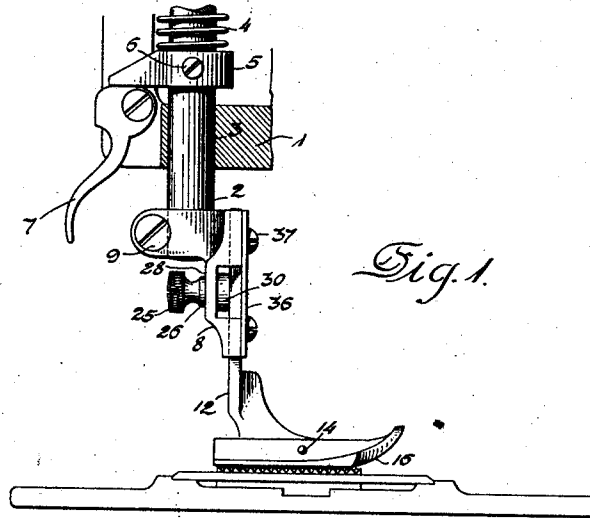


Fig. 1.

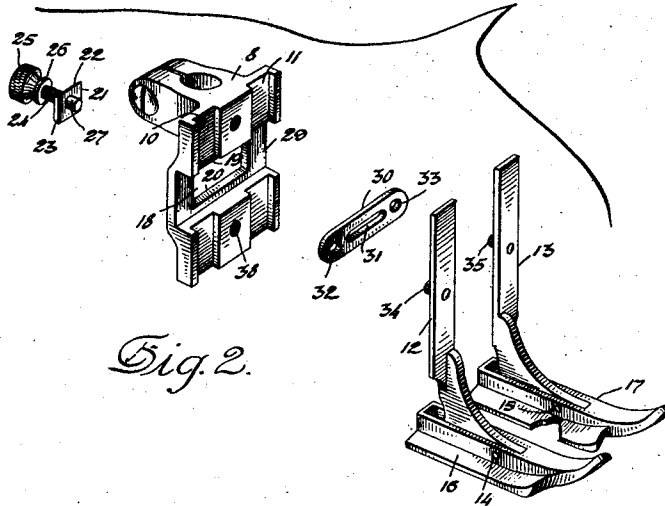


Fig. 2.

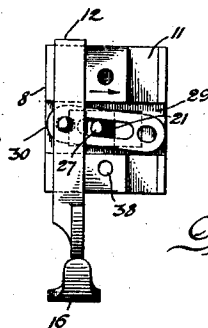


Fig. 3.

WITNESSES:

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JOHN S. FINCH, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE SINGER MANUFACTURING COMPANY, A CORPORATION OF NEW JERSEY.

CLOTH-PRESSER FOR SEWING-MACHINES.

1,025,460.

Specification of Letters Patent.

Patented May 7, 1912.

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To all whom it may concern:

Be it known that I, JOHN S. FINCH, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Cloth-Pressers for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in cloth-pressers for sewing machines, more particularly those provided with multiple cloth-presser members and employed for effecting hemstitch or open-work seams, and has for its object to provide means for controlling the degree of tension exerted upon the fabric by one of said cloth-presser members with respect to that exerted by its co-acting member.

In the accompanying drawings illustrating the invention, in the several figures of which like parts are similarly designated, Figure 1 is a view in side elevation of a sewing machine cloth-presser equipped with the present invention, Fig. 2 details, detached and in perspective, of the elements comprising the cloth-presser, and Fig. 3 a front elevation of the cloth-presser frame and certain other elements later to be referred to.

As the present invention is confined to the construction of the cloth-presser, only so much of the head of the sewing machine bracket arm, cloth-presser bar and presser-bar spring is herein illustrated as is deemed necessary for an understanding of the application of the invention.

1 represents the depending portion of the head of the sewing machine bracket arm, and 2 the lower end portion of the commonly employed cloth-presser bar mounted to move vertically in suitable bearings, as 3, (the lower one only of which is shown) formed in said head and normally held depressed by the commonly employed spring 4 (the lower end portion only of which is shown) seated on the presser-bar collar 5 which is secured by screw 6 to said presser bar, the upper end of said spring (not shown) contacting with a stationary part (not shown) of said head, as in earlier constructions, and the cloth-presser bar lifting lever 7 acting to give vertical movements to said presser bar, at the will of the operator.

8 represents the cloth-presser frame se-

cured by pinch screw 9 to the lower end of the presser-bar, said frame being provided with guide bearings 10 and 11 in which are slidably mounted the respective cloth-presser brackets 12 and 13, to the lower ends of which are pivotally attached by the respective pins 14 and 15 the respective cloth-presser shoes 16 and 17 which, as will be readily understood, are arranged on the opposite sides of a seam.

In the frame 8 is an opening 18 provided with oppositely arranged beveled walls 19 and 20, and in said opening is adjustably mounted a plate 21 provided with beveled walls 22 and 23, a threaded portion or stud 24 and fulcrum pin 27, said threaded portion carrying a nut 25 provided with a flange 26. When in assembled position, as shown in Figs. 1 and 3, the plate 21 rests in the opening 18, with its walls 22 and 23 in contact with the walls 19 and 20, and when the nut 25 is turned to the right the flange 26 acts upon the rear wall 28 of the frame 8 to hold said plate against accidental adjustment, the turning of said nut in the opposite direction acting to release said plate and permit its adjustment in directions corresponding to the length of said opening.

Mounted in the groove 29, formed in the frame 8, is a rock lever 30 provided with a slot 31 into which projects the fulcrum pin 27, the opposite ends of said lever being provided with openings 32 and 33 into which project pins 34 and 35, respectively, secured in the respective brackets 12 and 13, said parts being held in operative relationship by the cover plate 36 secured by suitable screws, as 37, which pass through suitable openings (not shown) and are threaded into openings, as 38, formed in said frame.

From the foregoing it will be readily understood that, through the adjustment of the fulcrum pin 27, like or unlike degrees of pressure may be transmitted to the cloth-presser shoes 16 and 17; and that when said fulcrum pin is adjusted central with respect to the length of the slot 31, the vertical movements of the brackets 12 and 13 will be of the same amplitude, the adjustment of said fulcrum pin out of said central position causing the vertical movements of the brackets 12 and 13 to be of unlike amplitude, due to the spring 4 exerting its greatest pressure on the bracket nearest, in vertical alinement, to said fulcrum,

Claims:—

1. In a cloth-presser for sewing machines,
a vertically movable and resiliently de-
pressed cloth-presser bar, a cloth-presser
5 frame carried by said presser-bar in which
are movably mounted complementary brack-
ets each carrying at its lower end a cloth-
presser shoe, and a fulcrum pin adjustably
secured in said frame and operatively con-
10 nected with said brackets to transmit from
said cloth-presser bar to said cloth-presser
shoes like and unlike degrees of pressure on
the fabric at opposite sides of a seam.
2. In a cloth-presser for sewing machines,
15 a vertically movable and resiliently de-
pressed cloth-presser bar, a cloth-presser
frame carried by said presser-bar in which
are movably mounted complementary brack-
ets each carrying at its lower end a cloth-
20 presser shoe, a fulcrum pin adjustably se-
cured in said frame, and connections includ-
ing a rock-lever for transmitting from said
cloth-presser bar to said cloth-presser shoes

like and unlike degrees of pressure on the
fabric at opposite sides of a seam. 25

3. In a cloth-presser for sewing machines,
a vertically movable and resiliently de-
pressed cloth-presser bar, a cloth-presser
frame carried by said presser-bar in which
are movably mounted complementary brack- 30
ets each carrying at its lower end a cloth-
presser shoe, and a fulcrum pin, adjustably
secured in said frame, upon which is ful-
crumed a rock-lever, the opposite ends of
which are operatively connected with the 35
respective brackets to transmit from said
cloth-presser bar to said cloth-presser shoes
like and unlike degrees of pressure on the
fabric at opposite sides of a seam.

In testimony whereof, I have signed my 40
name to this specification, in the presence of
two subscribing witnesses.

JOHN S. FINCH.

Witnesses:

ABBIE M. DONIHUE,
THOMAS CAMPBELL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."