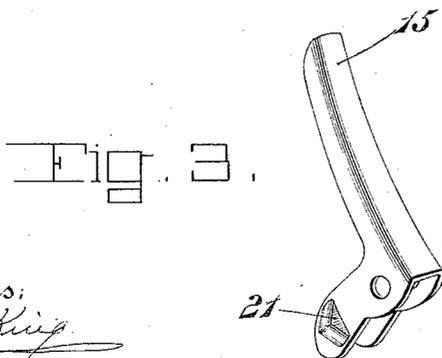
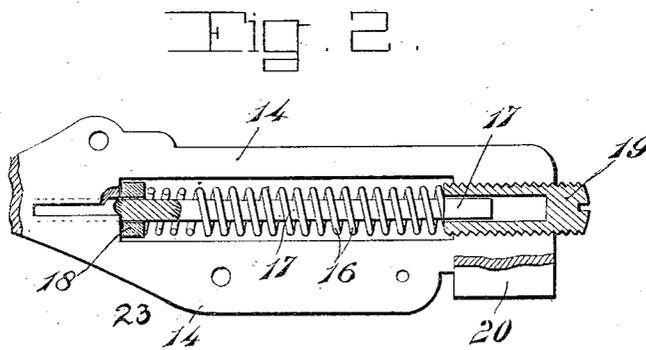
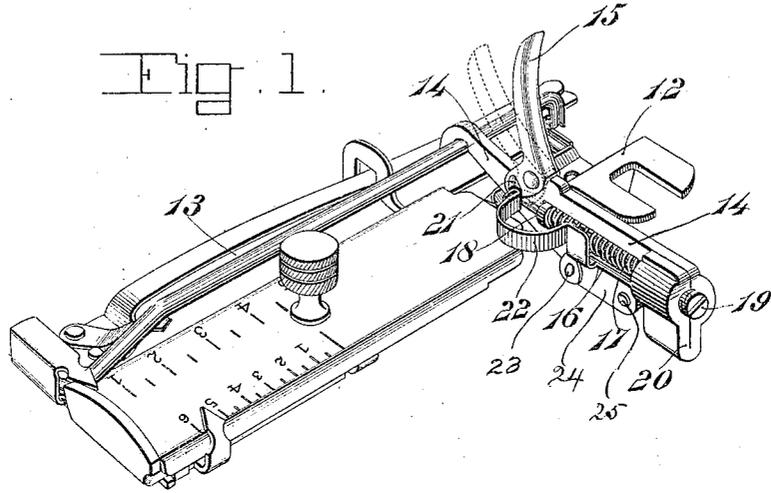


F. W. BECKERT.
 TUCK GREASER FOR SEWING MACHINES.
 APPLICATION FILED JAN. 29, 1912.

1,046,250.

Patented Dec. 3, 1912.



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UNITED STATES PATENT OFFICE.

FREDERICK W. BECKERT, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE GREIST MANUFACTURING COMPANY, A CORPORATION OF CONNECTICUT.

TUCK-CREASER FOR SEWING-MACHINES.

1,046,250.

Specification of Letters Patent.

Patented Dec. 3, 1912.

Application filed January 29, 1912. Serial No. 674,046.

To all whom it may concern:

Be it known that I, FREDERICK W. BECKERT, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented or discovered certain new and useful Improvements in Tuck-Creasers for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain improvements in the sewing machine tuck creaser or tucker covered by U. S. Patent No. 928,838, dated July 20, 1909, and which improvements render the attachment covered by such patent more efficient and convenient in use.

In the use of a tuck creaser, of the class to which this invention relates, it is desirable to vary the creasing pressure for different classes of work, and to this end the present improvement comprises means whereby the stress of the spring which coöperates with the creasing devices may be varied so that the creasing pressure on the work may be correspondingly varied.

The present invention also comprises convenient means whereby the operating lever, which is to be engaged by a pin or projection on the needle-bar of a sewing machine, may be conveniently retained in an operative or an inoperative position.

In the accompanying drawings Figure 1 is a perspective view of the improved tuck creaser, and Figs. 2 and 3 are detail views illustrating the features of the invention.

Referring to the drawings, 12 denotes an attaching shank forming part of the frame of the attachment and by means of which the tuck creaser may be secured to the presser-bar of the sewing machine in substitution of an ordinary presser-foot; the attachment comprising, as is usual, a presser-foot portion. A creasing pressure is applied to the vibrating creasing arm 13 from a rocking bar 14 on which is pivotally mounted a bell-crank operating-lever 15 to be engaged by a pin or projection on the needle-bar (not shown). The depending portion of the bell-crank operating lever is acted on by a coil spring 16 which serves to lift the said lever after each downward movement thereof, as in the construction of the patent above referred to, and the pressure exerted on the creasing arm 13 is determined by the

resisting stress of the said coil spring. Thus if the operating lever 15 were to meet with no resistance as it vibrated on its fulcrum it would not convey any pressure to the rocking bar 14; but by virtue of the resistance offered by the coil spring 16 a certain amount of pressure is conveyed from the operating lever to the creasing arm through the said rocking bar.

The coil spring 16 encircles a pin 17 which is mounted in the said rocking bar 14, the stress of said spring being communicated to said operating lever through a small sleeve 18 sliding on the said pin, and which communicates the stress of said spring to the depending arm of the operating lever 15. One end of the pin 17 is received in a hollow screw 19 tapped in an ear 20 on the said rocking bar 14, said ear being formed by bending the stock on itself, thus forming a split clamping ear which frictionally retains the said screw in any desired position of adjustment. One end of the spring 16 abuts against the screw 19 in such a manner that by turning the said screw in or out the stress of the said spring may be varied, by compressing or loosening said spring, as will be understood.

The depending arm of the operating lever 15 is forked to embrace the rocking bar 14, as in the construction shown by the patent above referred to, and the said depending arm is provided, on one of its side portions, with a lug 21 preferably having oppositely inclined faces either of which may be engaged by a finger formed at the free end of a retaining spring 22 the shank 24 of which is attached to one side of the rocking bar 14, said rocking bar, as in the construction shown by the patent above referred to, vibrating on a pin or rivet 23. Said shank 24 is secured in place by the said pin or rivet 23 and the rivet 25. By virtue of the spring finger referred to, and the lug on the operating lever having the two oppositely inclined faces, the said operating lever will be held by said spring either in its operative position denoted by dotted lines in Fig. 1, or in an inoperative position denoted by full lines in said figure.

It will thus be understood that the present improvements provide means whereby the creasing pressure may be varied, as may be desired; and also whereby the operating lever may be retained in any desired position.

tion by a convenient and simple construction of parts.

Having thus described my invention I claim and desire to secure by Letters Patent:

- 5 1. In a sewing machine tuck creaser, the combination with a vibrating creasing arm, and means for forcing the same downward on the work, of adjusting means whereby the creasing pressure of the said arm may be regulated, said means comprising a rocking bar engaging the said creasing arm, an operating lever mounted on said rocking-bar, a coil spring mounted on the said rocking bar and acting on said operating lever, a pin encircled by said coil spring, and a screw engaging said coil spring and by which the stress of said spring may be varied.
- 10 2. In a sewing machine tuck creaser, the combination with a vibrating creasing arm, and means for forcing the same downward on the work, of adjusting means whereby the creasing pressure of the said arm may be regulated, said means comprising a rocking bar engaging the said creasing arm, an operating lever mounted on said rocking bar, a coil spring mounted on the said rocking bar and acting on said operating lever, a pin

encircled by said coil spring, and a screw engaging said coil spring and by which the stress of said spring may be varied, said screw being formed hollow for the reception of one end of said pin.

3. In a sewing machine tuck creaser, the combination with the rocking bar 14, and the operating lever 15 pivotally mounted on said bar and having a depending portion provided with a laterally extending lug, of a spring attached to said rocking bar and the free end of which is arranged to engage said lug.

4. In a sewing machine tuck creaser, the combination with the rocking bar 14, and the operating lever 15 pivotally mounted on said bar and having a depending portion provided with a laterally extending lug having oppositely inclined faces, of a spring attached to said rocking bar and the free end of which is arranged to engage said lug.

In testimony whereof I affix my signature, in presence of two witnesses.

FREDERICK W. BECKERT.

Witnesses:

C. R. BECKERT,
W. C. GREIST.

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