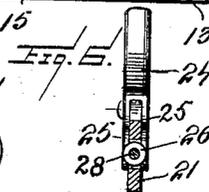
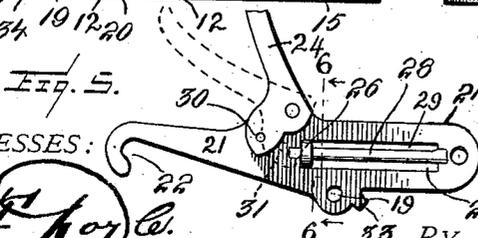
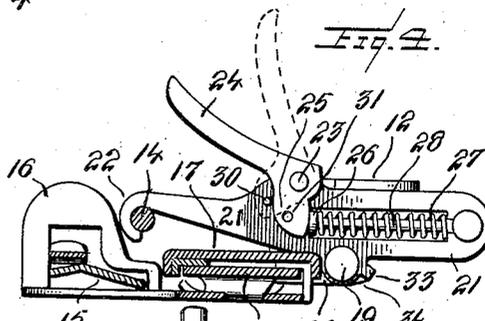
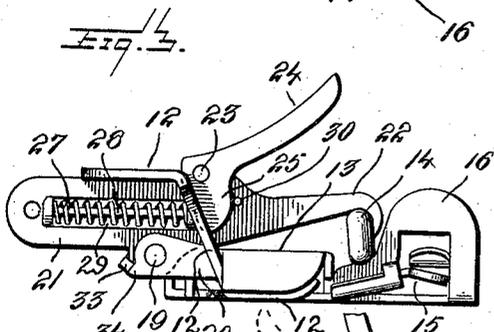
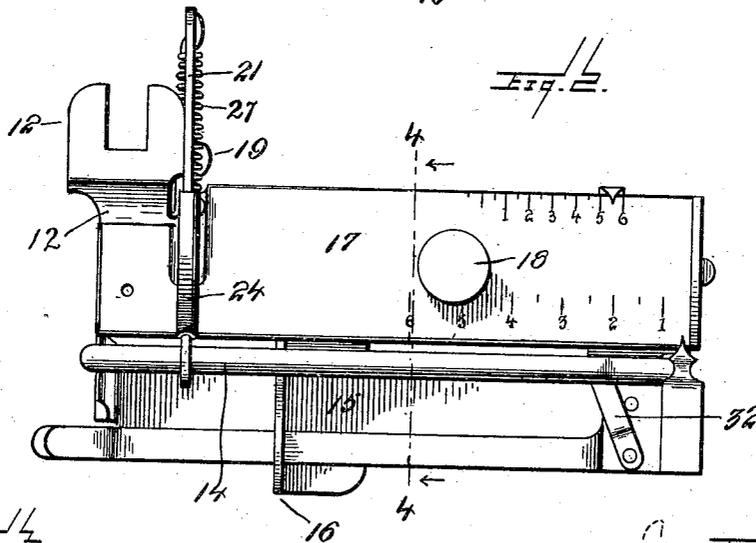
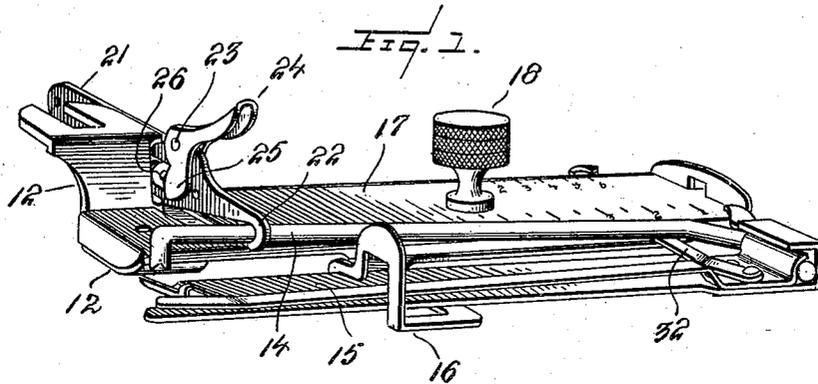


F. W. BECKERT.
 TUCK GREASER FOR SEWING MACHINES.
 APPLICATION FILED NOV. 3, 1908.

928,838.

Patented July 20, 1909.
 2 SHEETS—SHEET 1.



WITNESSES:

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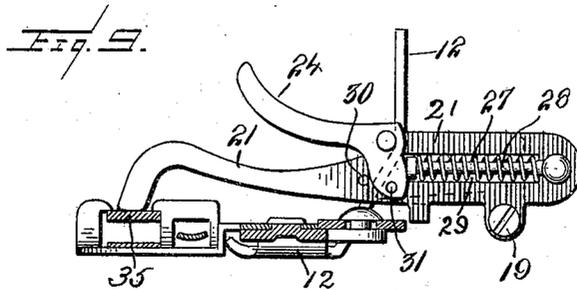
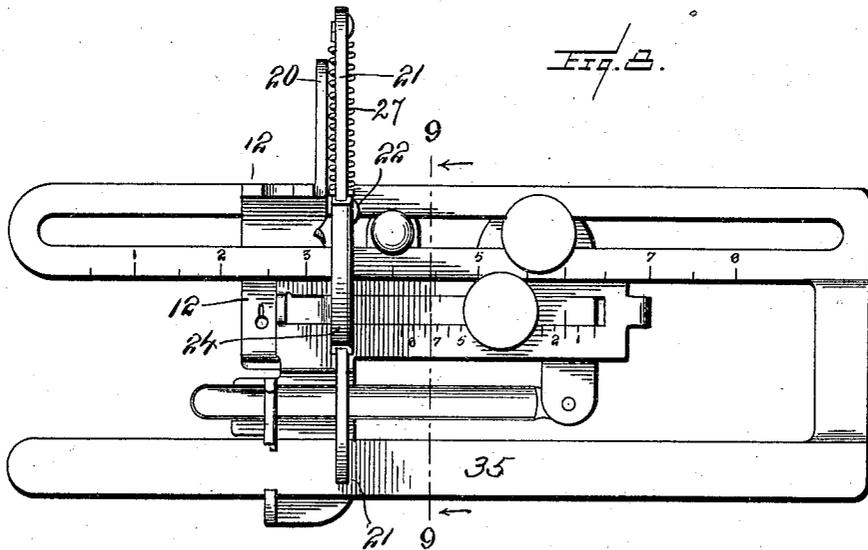
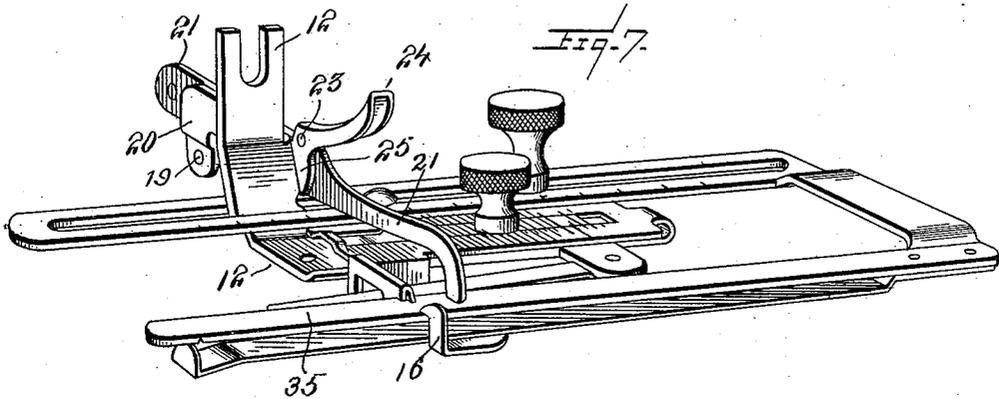
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2 SHEETS—SHEET 2.



WITNESSES:

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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.

No. 928,838.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed November 3, 1908. Serial No. 460,967.

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 tuck-creasing or tuck-marking attachments for sewing machines, and has for its object to provide such attachments with improved operating means.

In the accompanying drawings, Figure 1 is a perspective view of one form of tuck-creasing attachment embodying the present invention, and Fig. 2 is a plan view of the same. Fig. 3 is an end view looking from the left of Figs. 1 and 2, and Fig. 4 is a cross section on the line 4—4, Fig. 2. Fig. 5 is a detail side view of the operating rocking bar with the spring omitted and with the operating lever thrown up into inoperative position, and Fig. 6 is a detail cross section on line 6—6, Fig. 5. Fig. 7 is a perspective view of another form of tuck-creasing with the invention applied thereto, and Fig. 8 is a plan view of the same. Fig. 9 is a sectional view on line 9—9, Fig. 8.

The tuck-creasing to which the invention is herein shown in Figs. 1 to 6, inclusive, as being applied is, in its general construction, essentially the same as that fully shown and described in U. S. Patent No. 665,522, granted Jan. 8, 1901, to John M. Greist, in that it comprises a presser-foot 12 constructed for convenient attachment to a sewing machine presser-bar and having an integral lateral extending arm 13 which, with said foot, forms the frame of the attachment; said attachment also comprising creasing devices including a vibrating arm 14 mounted on a laterally adjustable plate 15 provided with an upturned creasing lip cooperating, in the creasing operation, with the down-turned outer end of said arm, an adjustable guide 16, and a clamping or cover plate 17 over the arm 13 and between which and said arm shanks or parts connected with said plate 15 and said guide are clamped by a set screw 18 when said set screw is tightened, after a

proper adjustment of said creasing devices and guide has been effected. The parts above referred to, as also their method of operation, are fully set forth in said patent, and the present invention will now be described.

Pivotally mounted at 19 on a rearwardly extending lug 20 integral with the presser foot 12 is a rocking bar 21 having at its forward end a hook 22 which engages the vibrating creasing arm 14. The said creasing arm 14 extends lengthwise of the attachment and at a right angle, or approximately so, to the rocking bar 21 which is arranged transversely of the attachment. Pivotally mounted by the rivet 23 on the rocking bar 21 is an operating lever 24 which is arranged to be engaged by a screw or projection on the needle-bar of the sewing machine to force the forward end of the rocking bar 21 downward for the creasing operation. The lever 24 is formed from a folded piece of sheet metal and is thus forked to afford depending arms 25 which embrace or straddle the rocking bar 21 and impinge against a small collar 26 urged forward by a coil spring 27 encircling a small rod 28 on which said collar slides, the said rod, collar and spring being arranged in a longitudinal or horizontal slot 29 formed in the rear portion of the said rocking bar, and the said rod being secured to the said rocking-bar in any suitable manner and being disposed centrally of said slot. The rocking bar 21 is provided with a stud or projection 30 which may serve to limit the upward movement of the lever 24 under the influence of the spring 27, and one of the arms 25 of the said lever 24 is provided with a hole or recess 31 which may be brought into register with the said stud or projection 30 by lifting the lever 24 manually to the position shown in full lines in Fig. 5 and in dotted lines in Fig. 4 when it is desired to throw the creaser out of operation by removing the said operating lever from the path of movement of the operating stud or projection on the needle bar of the sewing machine; and when said lever is thus lifted to its inoperative position it will be frictionally retained in such position by engagement of said arm with said stud at the hole or recess 31.

In the operation of the attachment and with the operating lever 24 in operative posi-

tion, the operating stud or projection on the needle bar, in its downward movement, strikes the said operating lever and forces the forward end of the rocking bar 21 downward to depress the vibrating creasing arm to engage its down-turned outer end against the goods running over the creasing lip and beneath said down-turned end. On a further downward movement of the needle-bar the operating lever 24 turns on its pivot against the stress of the coil spring 27 and thus yieldingly presses the creasing arm downward to crease the goods; and as the needle-bar rises the lifting spring 32 raises the vibrating creasing arm 14 and the forward end of the rocking bar 21, and the spring 27 lifts the operating lever 24 relative to the said rocking bar, thus causing the parts to assume their normal or first positions. When it is desired to suspend the creasing operation without removing the attachment from the machine, the operating lever 24 is thrown upward to the position shown in dotted lines in Fig. 4, as hereinbefore referred to, in which position it will be retained by the frictional hold of the stop stud 30 on an arm 25 of the said operating lever. The rocking movements of the bar 21 under the influence of the lifting spring 32 are limited by the engagement of a lug 33 on said bar with a slight projection 34 on the lug 20 on the presser-foot.

The invention is not to be understood as being limited to the particular form of tuck-creaser herein shown, as it may be applied to tuck-creasers of varying constructions. For example, in the form of tuck creaser shown in Figs. 7, 8 and 9 the forward end of the rocking bar 21 is shown as impinging on the top of the vibrating creasing arm 35, said rocking bar being pivotally mounted at 19 on the lug 20 extending rearwardly from the shank of the presser-foot 12.

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

1. In a tuck creasing attachment for sewing machines, the combination with creasing devices comprising a vibrating creasing arm extending lengthwise of said attachment, of a rocking bar extending transversely of said attachment and having a portion engaging said arm to depress the same, an operating lever pivotally mounted on said rocking bar, and a horizontally disposed compression coil spring sustained by said rocking bar and yieldingly acting on said operating lever.

2. In a tuck creasing attachment for sewing machines, the combination with creasing devices comprising a vibrating arm extending lengthwise of said attachment, of a rocking bar extending transversely of said attachment and having a portion engaging said arm to depress the same, a forked operating lever pivotally mounted on and embracing said rocking bar, and a horizontally disposed

compression coil spring sustained by said rocking bar and yieldingly acting on said operating lever.

3. In a tuck creasing attachment for sewing machines, the combination with creasing devices comprising a vibrating creasing arm extending lengthwise of said attachment, of a rocking bar extending transversely of said attachment and having a portion engaging said arm to depress the same, said rocking bar being provided with a longitudinal slot, an operating lever pivotally mounted on said rocking bar, and a compression coil spring arranged in said slot and yieldingly acting on said operating lever.

4. In a tuck creasing attachment for sewing machines, the combination with creasing devices comprising a vibrating creasing arm extending lengthwise of said attachment, of a rocking bar extending transversely of said attachment and having a portion engaging said arm to depress the same, said rocking bar being provided with a longitudinal slot, a forked operating lever pivotally mounted on and embracing said rocking bar, and a compression coil spring arranged in said slot and yieldingly acting on said operating lever.

5. In a tuck-creasing attachment for sewing machines, the combination with creasing devices comprising a vibrating creasing arm, of a rocking bar having a portion engaging said arm to depress the same, said rocking bar being provided with a longitudinal slot, a rod fixed in said slot, an operating lever pivotally mounted on said rocking bar, and a coil spring encircling said rod and yieldingly acting on said operating lever.

6. In a tuck-creasing attachment for sewing machines, the combination with creasing devices comprising a vibrating creasing arm, of a rocking bar having a portion engaging said arm to depress the same, said rocking bar being provided with a longitudinal slot, a rod fixed in said slot, a forked operating lever pivotally mounted on said rocking bar, and a collar and coil spring encircling said rod, said collar being yieldingly forced against said forked operating lever by said spring.

7. In a tuck-creasing attachment for sewing machines, the combination with creasing devices comprising a vibrating creasing arm, of a rocking bar having a portion engaging said arm to depress the same, said rocking bar being provided with a stud or projection, an operating lever pivotally mounted on said rocking bar, and a coil spring sustained by said rocking bar and yieldingly acting on said lever, the said stud or projection serving, when the said lever is thrown into an operative position, to frictionally retain said lever in such position.

8. In a tuck creasing attachment for sewing machines, the combination with creasing devices comprising a vibrating creasing arm,

of a rocking bar having a portion engaging
said arm to depress the same, said rocking
bar being provided with a stud or projection,
a forked operating lever pivotally mounted
5 on said rocking bar, and a coil spring sus-
tained by said rocking bar and yieldingly act-
ing on said lever, said stud or projection
serving, when said lever is thrown into an in-
operative position, to frictionally retain said
lever in such position. 10

In testimony whereof I affix my signa-
ture, in presence of two witnesses.

FREDERICK W. BECKERT.

Witnesses:

P. R. GREIST,
H. M. GREIST.