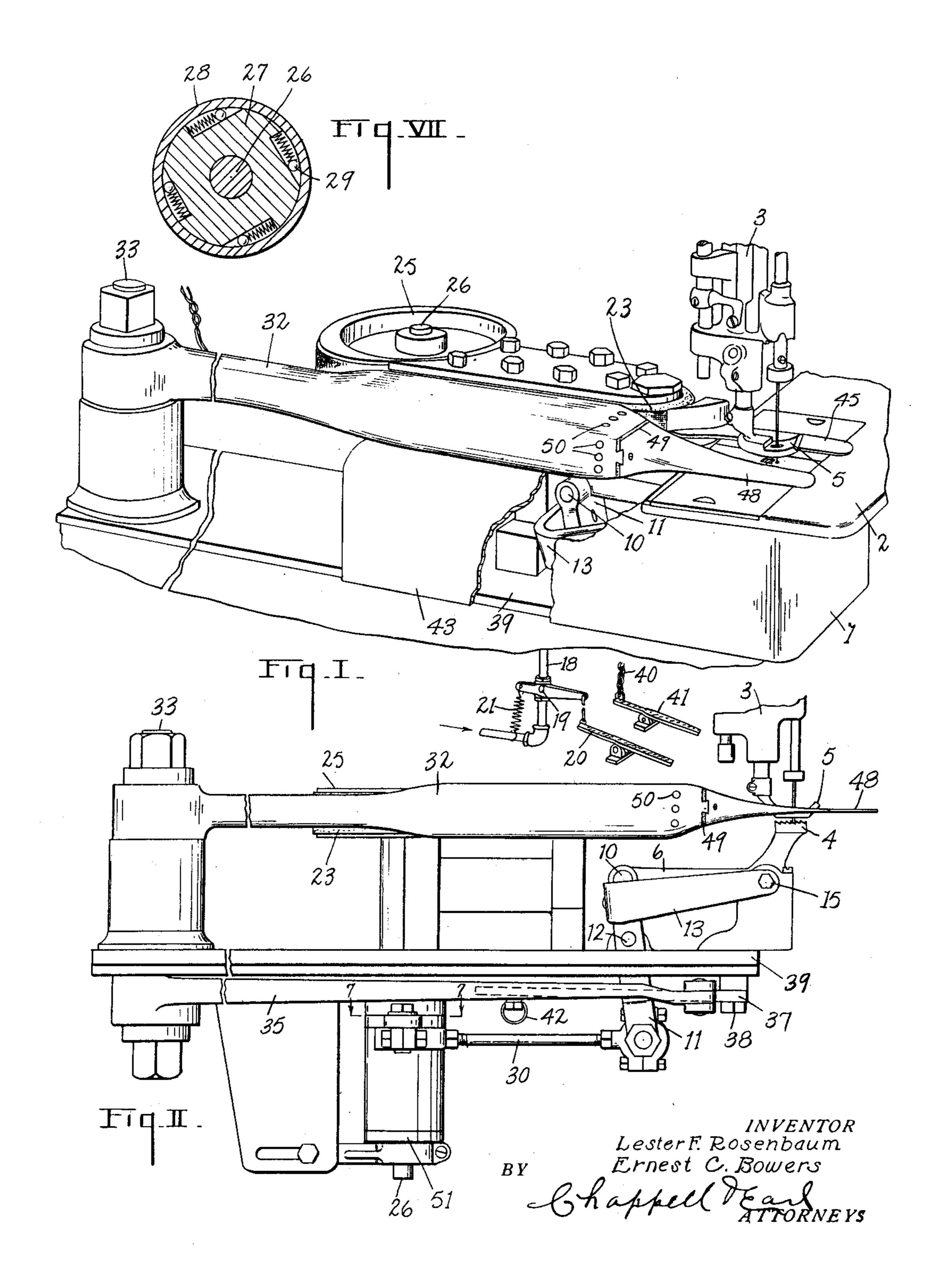
## L. F. ROSENBAUM ET AL

PRESSING MACHINE

Filed May 14, 1925

2 Sheets-Sheet 1

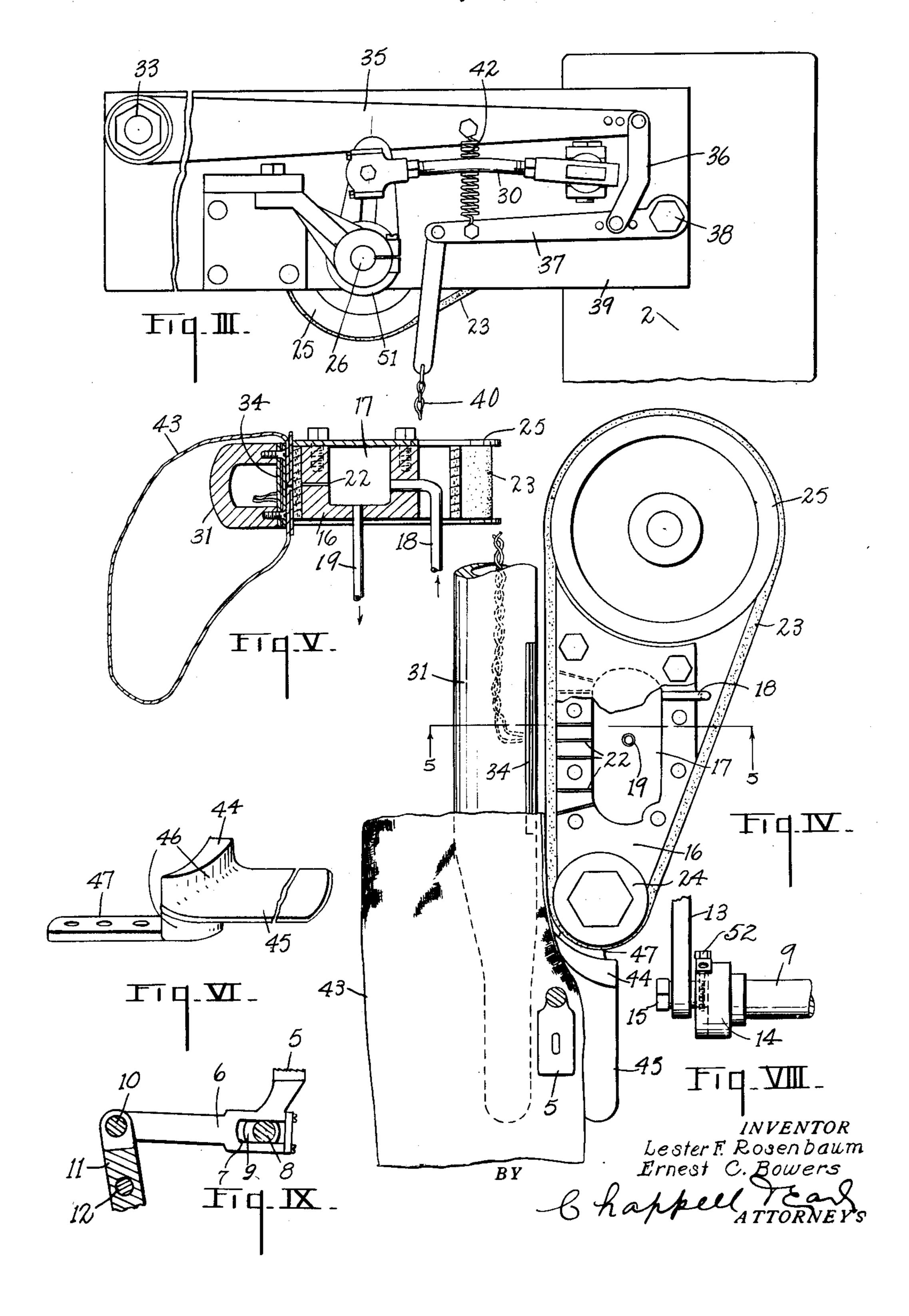


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### PRESSING MACHINE

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2 Sheets-Sheet 2



# UNITED STATES PATENT OFFICE.

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#### PRESSING MACHINE.

Application filed May 14, 1925. Serial No. 30,276.

This invention relates to a pressing machine for sewing machines.

The main objects of this invention are:

First to provide an improved sewing 5 mechanism with means for pressing the seam as formed.

Second, to provide an improved seam pressing mechanism having these advantages which is very compact and may be readily 10 applied to sewing machines of standard type.

Third, to provide an improved seam pressing mechanism which is well adapted for pressing the seams of trouser legs and the like as sewed.

Fourth, to provide a machine embodying these advantages which is simple and easy to operate.

Objects pertaining to details and econotailed description to follow.

We accomplish the objects of our invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure embodying the features of our invention is clearly illustrated in the accompanying drawing forming a part of this ap-30 plication, in which:

Fig. I is a fragmentary perspective view of a sewing machine showing an embodiment of our invention, parts being shown conventionally.

Fig. II is a fragmentary side elevation of the structure shown in Fig. I.

Fig. III is an inverted fragmentary view of parts of the mechanism shown in Figs. I and II.

Fig. IV is a fragmentary plan view.

Fig. V is a fragmentary view partially in section on a line corresponding to line 5-5 belt is supported by the face of the bed of Fig. IV.

Fig. VI is a perspective view of the seam 45 opening and work guiding member partially broken away.

Fig. VII is a horizontal section through the driving ratchet on a line corresponding to line 7—7 of Fig. II.

Fig. VIII is a detail view of parts of the feed mechanism.

further details of the sewing machine feed mechanism.

In the drawing the sectional views are 55 taken looking in the direction of the little arrows at the ends of the section lines and similar numerals of reference indicate similar parts throughout the several views.

Referring to the drawing, 1 represents the 60 frame of a sewing machine and 2 the bed plate thereof. Only such parts of the sewing mechanism 3 are shown as seem necessary to illustrate an adaptation of our improvements.

The sewing mechanism includes a feed member 4 which is operatively associated with the presser foot 5. The feed member 4 is carried by the support 6 having a slot 7 therein engaging the eccentric pin 8 on the 70 mies of construction and operation of our shaft 9. The outer end of this support 6 invention will definitely appear from the de- is pivoted at 10 upon the upper end of the lever 11, the lever being pivoted at 12.

This lever 11 has an arm 13 connected to the crank 14 of the shaft 9 by means of the 75 wrist pin 15. This wrist pin is adjustably connected to the crank disk by the screw 52 to vary the stroke of the lever. The details of this connection are not illustrated as suitable structures are well known in the art.

At the rear of the sewing mechanism I mount a pressing mechanism comprising the bed member 16 having a steam chamber 17 therein provided with an inlet 18 and a discharge 19. The inlet 18 has a valve 19 con- 85 nected to the pedal 20, the valve being held normally closed by the spring 21. The steam chamber has ports 22 opening to the face of the bed member.

The belt 23 of felt or other suitable ma- 90 terial is mounted on the pulleys 24 and 25 arranged at the ends of the bed member so that the rearwardly traveling reach of the member and over the steam ports 22 so that 95 steam is discharged through the belt.

The pulley 25 is a driven pulley, the shaft 26 of the pulley having secured thereto a driven ratchet member 27 which is surrounded by the driving sleeve 28. Clutch balls 29 100 are disposed between the driving and driven members as shown in Fig. VII.

The driven ratchet member 28 is connect-Fig. IX is a detail sectional view showing ed by the link 30 to the lower end of the

with a step by step movement.

arm 32 mounted on the pivot 33. The press- are aware, required a separate operation. ing member 31 has a heating element 34, Having thus described our invention what preferably an electric heating element, the we claim as new and desire to secure by Letpressing member 31 being adapted to coact ters Patent is: 10 with the bed member 16 in pressing the 1. An apparatus of the class described 75 belt 23.

at 43 with the press closed thereon.

ing the work to the pressing means, we provide a seam opening and guiding member 25 designated generally by the numeral 44 and comprising a forwardly projecting plate 45 thereof. This opening and guiding mem- for said pressing member. ber is provided with a supporting arm 47 2. An apparatus of the class described bed member 16.

23 as shown in Fig. IV.

To assist in guiding the work to the pressing member 31, that member is provided member, said supporting arm constituting a 105 with a forwardly projecting finger 48 which is preferably of non-heat conducting material such as hard fiber and is insulated from the pressing member 31 at 49. The pressing member 31 is also preferably provided with ber. ther protect the guiding finger.

55 one direction only, we provide a holding member, said supporting arm constituting 120 ratchet 51 for the shaft 26, the holding ratchet being substantially the same as the driving ratchet except that it is reversed.

We have not attempted to illustrate vari-60 ous adaptations and embodiments of our improvements which we contemplate as we believe the disclosure made will enable the embodiment or adaptation thereof as may be desired.

Our improvements may be readily embod-

lever 11 so that as the lever is oscillated ied in various types of sewing machines and in actuating the sewing mechanism feed result in a great saving of time and labor member the belt 23 is driven in synchronism as the seams are effectively opened and pressed as the work proceeds, such seam The pressing member 31 is carried by the pressing having heretofore, so far as we 70

work as the work is carried along by the comprising a bed member provided with a steam chamber and having a steam delivery The supporting pivot 33 has a long arm opening in the face thereof, a driven feed 35 secured to the lower end thereof and con-belt, belt supporting and driving pulleys 15 nected by the link 36 to a lever 37 pivoted disposed at the ends of the bed member so 80 at 38 on the under side of the bed plate 39, that said feed belt travels across the face the lever being connected by the chain 40 thereof, a seam opening and guiding memto a pedal 41. The spring 42 connecting ber disposed to open the seam and guide the the arm 35 with the lever 37 acts to nor- work to said feed belt, a pressing member 20 mally lift the pedal. The work is indicated provided with a heating unit, a pivotally 85 mounted supporting arm for said pressing To assist in opening the seam and guid- member whereby it is supported in coacting relation to said bed member, said supporting arm constituting a work support, a guiding finger projecting forwardly from said 90 pressing member and heat insulated therewith turning surfaces 46 at the rear end from, and pedally operated actuating means

30 which is secured on the under side of the comprising a bed member provided with a 95 steam chamber and having a steam delivery The seam opening plate 45 projects for- opening in the face thereof, a driven feed wardly at the rear of the presser foot 5 belt, belt supporting and driving pulleys disso that the operator can easily start the posed at the ends of the bed member so that 35 work with one edge of the seam on each side said feed belt travels across the face there- 100 of the plate and as it is carried rearwardly of, a pressing member provided with a heatthe seam is opened and directed to the belt ing unit, a pivotally mounted supporting arm for said pressing member whereby it is

supported in coacting relation to said bed work support, a guiding finger projecting forwardly from said pressing member and heat insulated therefrom, and pedally oper-

ated actuating means for said pressing mem-

a series of holes 50 at its front end to fur- 3. In a pressing machine, the combination of a bed member provided with a steam The supporting arm 32 for the pressing chamber and having a steam delivery openmember 31 is of such length that the work, ing in the face thereof, a feed belt supported such for instance as a trouser leg, may be to travel across the face of said bed mem- 115 supported thereby until completed, the ber, a pressing member provided with a heatpressing member being allowed to swing ing unit, a pivotally mounted supporting open for the removal of the work.

arm for said pressing member whereby it is To insure movement of the belt 23 in supported in coacting relation to said bed a work support, a work guiding finger projecting forwardly from said pressing member and heat insulated therefrom, and pedally operated actuating means for said pressing member.

4. In a pressing machine, the combination of a bed member provided with a steam chamber and having a steam delivery opening in the face thereof, a feed belt supported to travel across the face of said bed mem- 130

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ber, a pressing member provided with a heat- to spread the seam and guide the same thereing unit, a pivotally mounted supporting to, and means for actuating said pressing arm for said pressing member whereby it is member. supported in coacting relation to said bed 6. A seam pressing means comprising a ing means for said pressing member.

10 a driven belt adapted to travel over said bed port for the work, and means for actuating 25 member, a coacting pressing member, a piv- said pressing member. oted arm by which said pressing member is In witness whereof we have hereunto set carried, said arm being adapted as a support our hands. for the work, a seam opening and guide 15 member means disposed in front of said belt

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5 member, said supporting arm constituting a bed member provided with a heating means, 20 work support, and pedally operated actuat- a driven belt adapted to travel over said bed member, a coacting pressing member, a 5. A seam pressing means comprising a pivoted arm by which said pressing member bed member provided with a heating means, is carried, said arm being adapted as a sup-

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