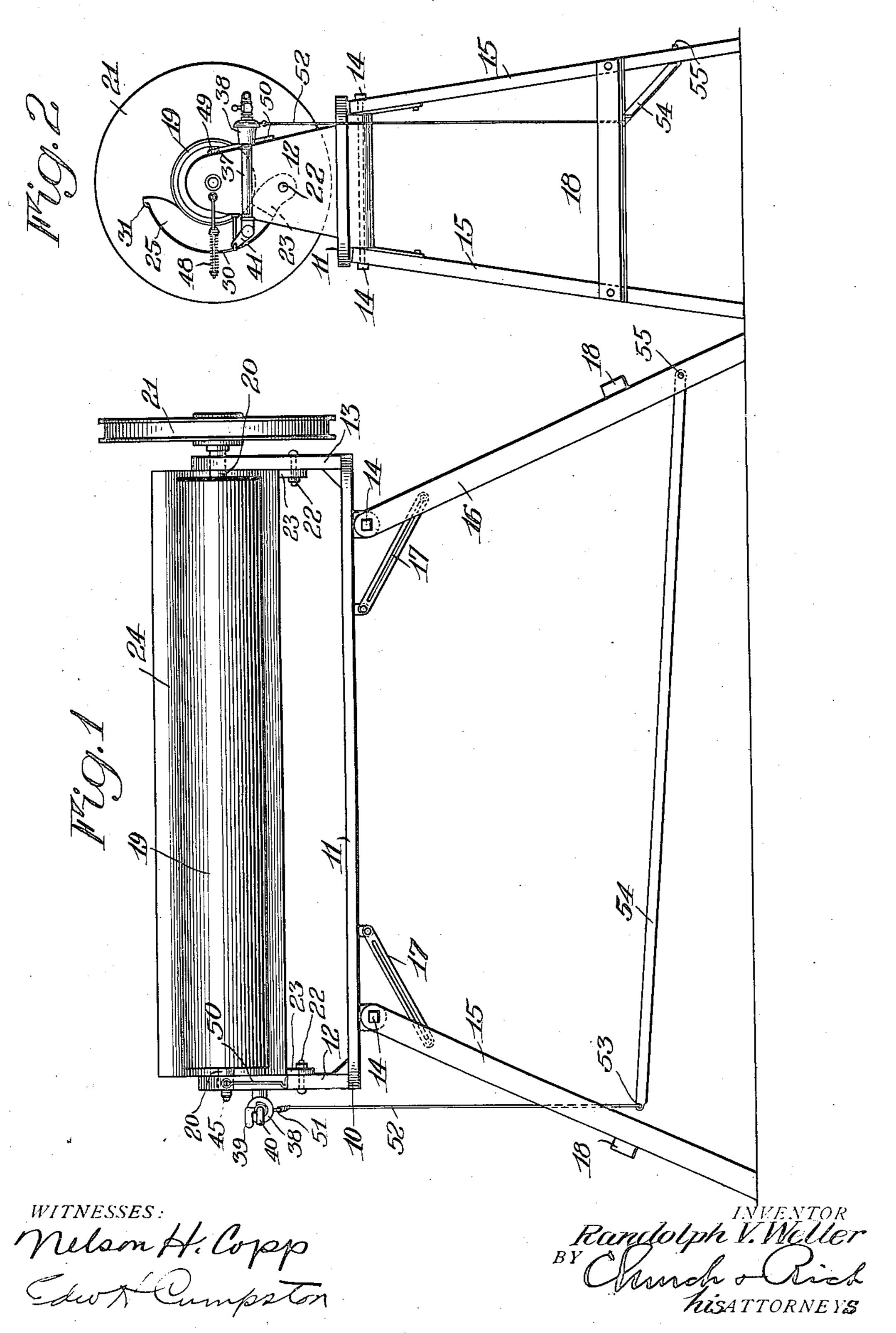
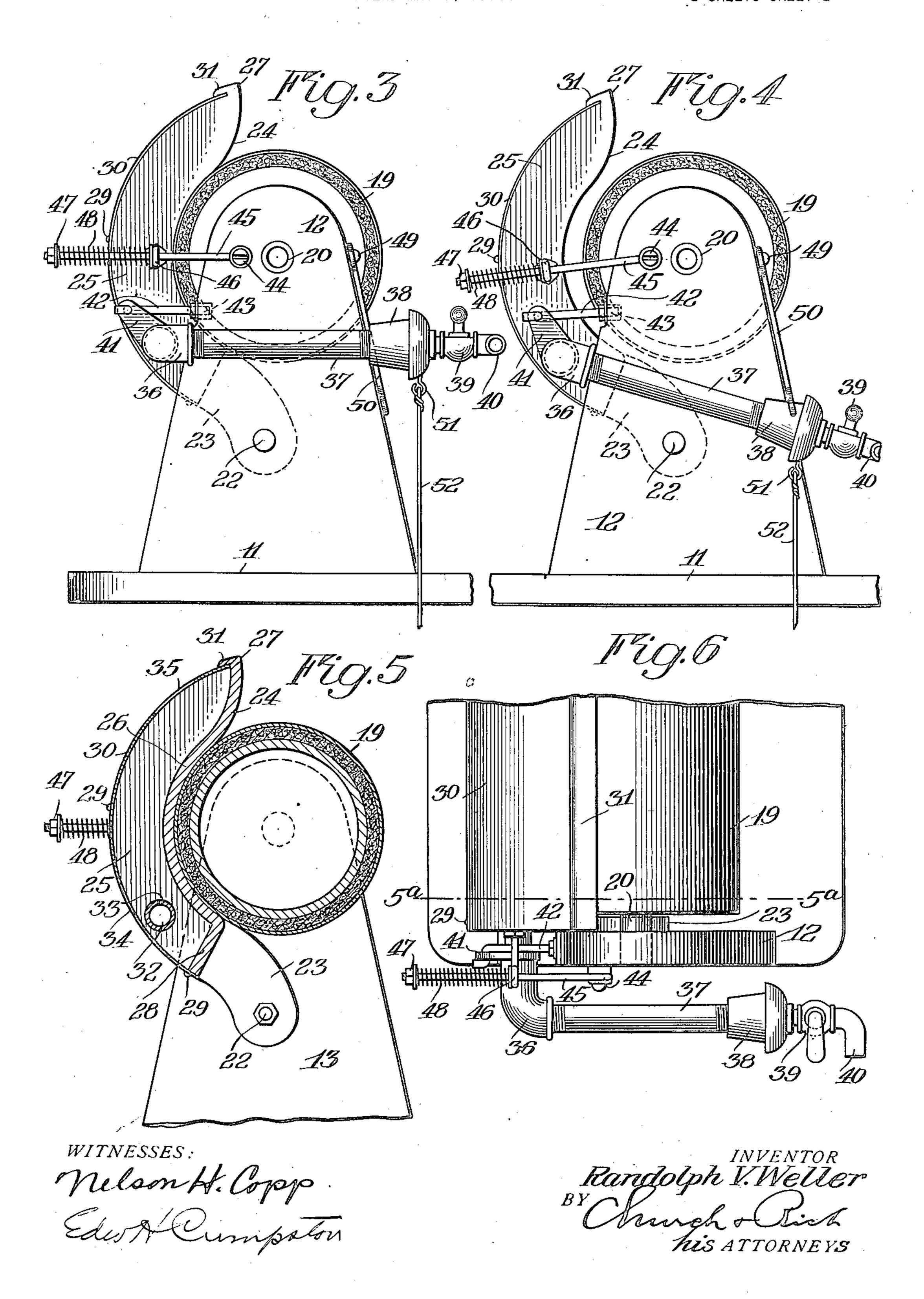
R. V. WELLER. IRONING MACHINE. FILED MAY 6, 1919.

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2 sheets-sheet 2



UNITED STATES PATENT OFFICE.

RANDOLPH V. WELLER, OF ROCHESTER, NEW YORK.

IRONING MACHINE.

Application filed May 6, 1919. Serial No. 295,074.

tion of the same, reference being had to the machine is not in use. accompanying drawings, forming a part of 10 this specification, and to the reference-numerals marked thereon.

This invention relates to laundry apparatus, and more particularly to ironing ma-15 tion being to provide a simple and inexpensive, yet efficient, device of this character

Another object is to improve the construc-

25 minimum of effort and attention on the part of the operator.

To these and other ends the invention resides in certain improvements and combithe specification.

In the drawings:

Figure 1 is a front elevation of the 35 mangle;

Figure 2 is an end elevation of the same; a portion of the machine showing the parts in operating position;

roll and shoe;

portion of the operating mechanism;

50 present preferred as best illustrating its struction that downward actuation of the principles, comprises, preferably, a frame conductor extension 37, rotating portion 32 or support indicated generally at 10 having of the conductor in its bearings in the shoe, a substantially rectangular base 11 fixed to causes arm 41 to thrust against rod 42 and 55 the base having pivoted on its under side the shoe away from the roll, as required at

To all whom it may concern:

Be it known that I, Randolph V. Weller, pair having a cross brace 18. A bar 17 for of Rochester, in the county of Monroe and each standard pivoted to the base 11 and State of New York, have invented certain having a pin and slot connection with the 60 5 new and useful Improvements in Ironing standard, supports the latter in extended Machines; and I do hereby declare the fol-position and permits the standards to be lowing to be a full, clear, and exact descrip- folded upwardly against the base when the

An ironing bed or roll, of the usual or 65 any suitable construction, is indicated at 19 having at its ends trunnions 20 journaled in the uprights 12 and 13, one of these trunnions being extended and having chines, or mangles, one object of the inven- fixed thereon a pulley 21 adapted to receive 70

the driving belt of a motor.

Pivoted on the standards 12 and 13 at 22 suitable for domestic as well as factory use. below roll 19, are arms 23 supporting a shoe or iron comprising, preferably, a cast tion of such devices by reducing the num- metal plate 24 having end flanges 25 and a 75 20 ber of parts and effecting a more compact face portion 26 suitably curved for ironing coaction with roll 19, the latter portion hav-Still a further object is to provide an ing backwardly turned flanges 27 and 28, to ironing machine with a convenient arrange- the latter of which, and to the end flanges ment of the operating parts requiring the 25, by means of screws 29, is attached a sheet 80 metal cover plate 30, the upper end of which is snapped under a projecting ledge 31 of the flange 27.

Rotatably supported in the end flanges 25 nations of parts, all as will be hereinafter of the shoe is a conductor 32 for supplying 85 30 more fully described, the novel features be- a suitable heating medium for the shoe, ing pointed out in the claims at the end of preferably fuel gas, the upper side of the conductor being provided with burner openings 33. The cover plate is provided at 34 with air inlet openings and with an escape 90 opening at 35. One end of conductor 32 extends without the shoe and has connected Figure 3 is an enlarged end elevation of therewith an elbow 36 turning forwardly transversely of the roll and having connected therewith an extension 37 compactly 95 Figure 4 is a similar view showing the disposed transversely of the roll, at the end roll and shoe locked in separated relation; of which is preferably attached a mixing Figure 5 is a section on the line 5a-5a chamber 38 for the gas which is admitted of Figure 6 showing the construction of the to the latter through a valve 39 provided with a nipple 40 for a flexible gas supply 100 Figure 6 is a top plan view showing a connection. Fixed on the conductor 32 adjacent the shoe is an arm 41 having pivot-Similar reference numerals throughout ally connected therewith a rod 42 movably the several views indicate the same parts. connected at 43 at its other end with the This invention, in the embodiment at upright 12. It is evident from this con- 105 the ends of which are uprights 12 and 13, the standard 12 as a fulcrum, thus moving 110 as at 14, adjacent its corners, four stand- times in adjusting the clothes or to prevent

over heating of the roll when there are no

clothes passing between the parts.

44 is a rod 45 extending loosely through a movable one toward and from the other, a 5 yoke 46, fixed on the end of the shoe, and 47 between which and yoke 46 is placed a connection between said conducting means urge the shoe toward the roll. The compres- movement of the parts upon movement of 10 sion of the spring may be varied by adjust- said conducting means. ment of the nut. In order to lock the roll and shoe in separated relation, there is pivvice 50, the lower end of which is adapted to frame toward and from the bed, of a heat 15 be swung above the mixing chamber 38 of the conducting member mounted to swing on conductor to retain the latter in lowered po- the iron about an axis extending parallel to sition.

tached to the mixing chamber 38, a rod 52 member is swung on the iron. being connected at one end with hook 51 3. An ironing machine comprising a ro-

to the standard 16.

brief explanation in connection with the for urging said parts toward each other, and above description of the construction. The retaining means for retaining said conducshoe having been heated to the desired degree tor in adjusted position. of temperature, with the roll driven by the 4. An ironing machine comprising a supmotor, the clothes are fed between the shoe port, a rotatable roll on said support, a shoe and roll at the top of the latter and the ro- on said support movable toward and from tation of the roll carries the clothes between said roll, a conductor connected with said 95 the roll and shoe, thereby accomplishing the shoe for conducting a heating medium thereironing operation under pressure of spring to and connecting means between said sup-48 and discharging the clothes at the bottom port and conductor for effecting said moveof the roll. When the machine is to be al- ment of the shoe by actuation of said conlowed to stand idle for any time while the ductor. heat is applied, or if the clothes being ironed 5. An ironing machine comprising a suprequire adjustment between the parts, treadle port, a rotatable roll on said support, a shoe 54 is pressed down with the foot and through on said support movable toward and from the actuating connections described, carries said roll, a conductor movably connected the shoe away from the roll, in which po- with said shoe for conducting a heating me- 105 sition it may be locked by means of the re- dium to the latter, means for urging said 45 taining device 50.

tion, comprising but a few parts. The em- operating device substantially coextensive ployment of the conductor for the heating with said roll for actuating said conductor 110 medium as one of the operating parts and and moving said shoe away from said roll. 50 the arrangement of the same transversely 6. An ironing machine comprising a supof the machine adjacent standard 12 pro- port, a rotatable roll on said support, a shoe vides an efficient and very compact construction said support movable toward and from tion. The provision of the treadle extend- said roll, a conductor for conducting a heat- 115 ing longitudinally of the machine permits ing medium to said shoe connected with the 55 the convenient operation of the same from shoe and having a portion extending transany position of the operator while handling versely of the shoe and said roller, said conthe clothes. These various features afford ductor being connected with the support an ironing machine which is light in weight, and an operating device arranged parallel 120 inexpensive and convenient to operate and with said roll and connected with said con-60 therefore especially suitable for domestic ductor for actuating the latter and moving use, although, of course, it may be employed said shoe away from said roll. to advantage in laundry establishments.

I claim as my invention:

1. An ironing machine comprising a bed, Pivotally connected with standard 12 at an iron, said bed and iron being relatively 65 movable conducting means for conducting a carrying at its outer end a nut and washer heating medium to one of said parts, and compression spring 48 serving to normally and said parts for effecting said relative 70

2. In an ironing machine, the combination with a frame, a rotary bed mounted to turn oted at 49 on the standard 12 a retaining de- thereon, and an iron mounted to move on the 75 the axis of rotation of the bed, and having A convenient device is provided for op- a connection with the frame supporting 80 erating the shoe comprising a hook 51 at- said rotary bed to move the iron when the

and at the other end 53 with a treadle 54 tatable roll, a shoe, said roll and shoe being extending longitudinally of the machine and relatively movable one toward and from the substantially coextensive with the roll, the other, a conducting means for conducting a other end of the treadle being pivoted at 55 heating medium to one of said parts said conducting means being movable for moving The operation of the device requires but a said parts one away from the other, means

shoe toward said roll, connecting means be-The machine is very simple in construct tween said support and conductor, and an

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