

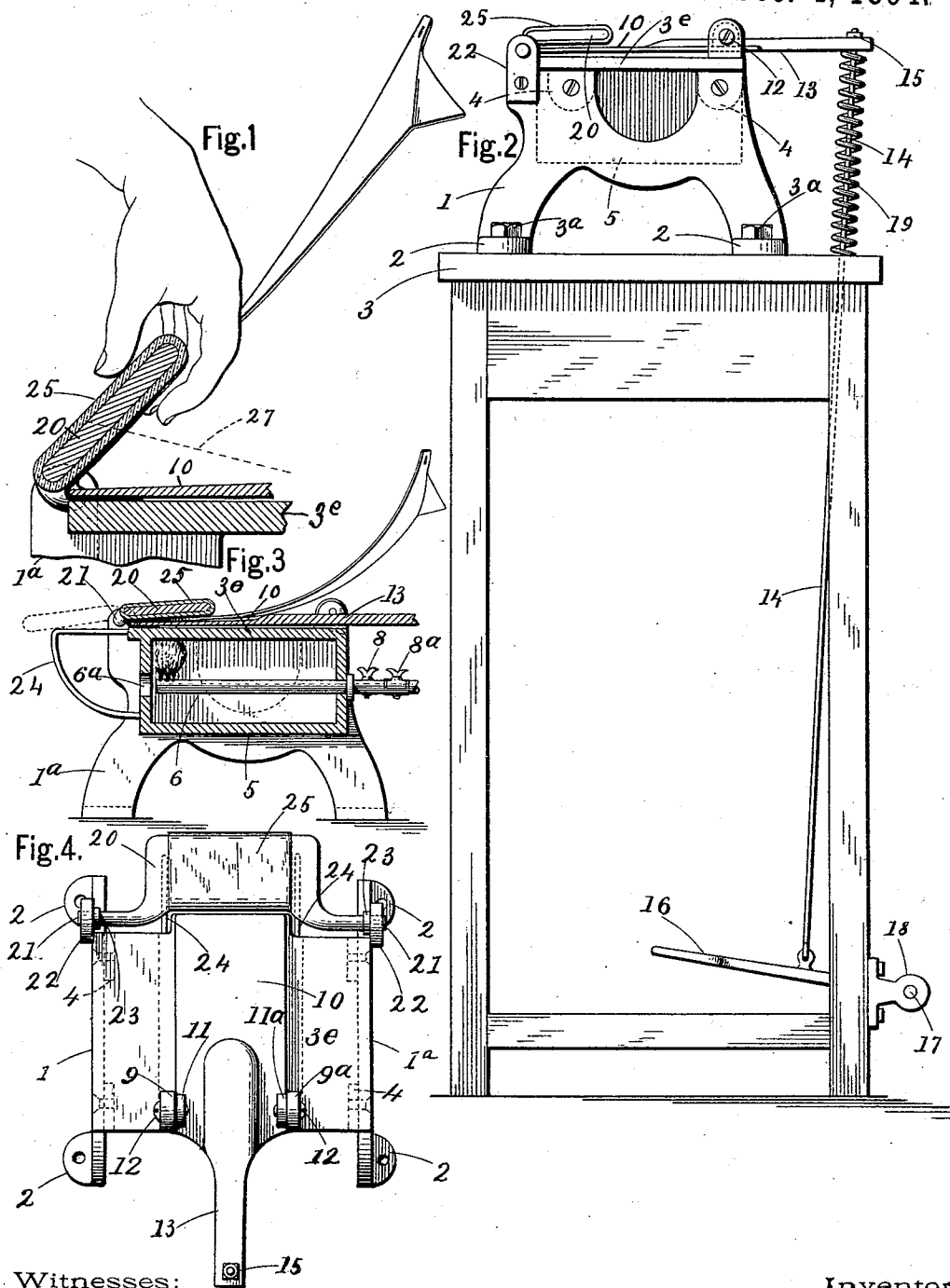
(No Model.)

A. W. CUMMINGS.

MACHINE FOR TURNING OVER TIPS OF STAND-UP COLLARS.

No. 530,091.

Patented Dec. 4, 1894.



Witnesses:

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UNITED STATES PATENT OFFICE.

ADELBERT W. CUMMINGS, OF DUNKIRK, NEW YORK.

MACHINE FOR TURNING OVER TIPS OF STAND-UP COLLARS.

SPECIFICATION forming part of Letters Patent No. 530,091, dated December 4, 1894.

Application filed April 4, 1894. Serial No. 506,298. (No model.)

To all whom it may concern:

Be it known that I, ADELBERT W. CUMMINGS, a citizen of the United States, residing in Dunkirk, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Machines for Turning Over the Tips of Stand-Up Collars, of which the following is a specification.

The object of my invention is to produce a machine for turning over the tips of stand up collars, whereby the work is done more uniformly, quicker and better than can be done by hand, all of which will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 represents an enlarged sectional elevation of a part of the folding portion of the machine, showing a collar in position for turning the tips over, also a hand for illustrating the manner of doing it. Fig. 2 is a side elevation of the machine complete, showing the collar folder closed. Fig. 3 is a vertical longitudinal central section through the machine, cutting through the gas burner receptacle and exposing the gas burner. Fig. 4 represents a top or plan view of the machine, the table below the machine being omitted.

Referring to the drawings, 1 and 1^a, represent the two side frame pieces of the machine. They are preferably made of cast iron as being the best material for the purpose. They are provided with laterally projecting feet 2, by which the machine is secured to the top of the table 3, by bolts 3^a.

The top or bed piece of the machine consists of a bed plate 3^b, preferably of cast iron, having on its lower or under side two pendent ears 4, at each side, against which the two side frame pieces 1 and 1^a, are secured by screw bolts in the usual way.

Below the bed piece, either forming a portion of it or attached to it, is a receptacle 5, for the gas burner 6. At one end of this receptacle is an air or gas opening 6^a, and at the opposite end is secured a gas burner, provided with an air and gas cock 8 and 8^a, made in the ordinary manner for supplying the required heat.

Projecting upward from the top of the bed piece are two ears 9 and 9^a, and a flat plate 10, of either sheet-metal or cast iron, hav-

ing upwardly projecting ears 11 11^a, is pivoted by pins 12, which pass through the ears on the bed piece and on the plate. At or near the pivoted end of this plate 10, is an outwardly projecting arm 13. To the end of arm 13, is secured a connecting-rod, 14, the upper end of which passes up through the end of the arm 13, and is secured by a nut 15. See Fig. 2. One of the objects of the plate 10, is to hold the collar tip in position while folding it.

The opposite end of the connecting-rod 14, extends downward and is pivoted to the footstep or treadle 16, which is pivoted by a pin 17, to a cast iron bracket 18, on the frame of the machine. A spiral spring 19, on the connecting-rod 14, and interposed between the under side of the arm 18, and the top of the table, keeps that end of the arm 13, upward and holds the flat plate 10, downward to the bed piece with a yielding force, so that when it is necessary to raise the plate 10, all that is required to be done is to place the foot on the treadle and force it downward, thereby lifting the opposite end or arm of the plate. The spring immediately forces the plate down again to its normal position the moment the weight of the foot is removed from the treadle. The object of this construction will appear farther on.

At the opposite side, or front of the machine is a folding plate 20, pivoted by its oppositely and laterally projecting pivotal bearings 21, which pass through the removable holding plates or ears 22. A shoulder 23, at each side prevents the folding plate from moving laterally between the ears 22. This folding plate when turned back out of the way, (substantially as shown in Fig. 4,) rests upon two wire frames or supporting pieces 24. The folding plate 20, is covered with cloth 25, to give it a yielding surface.

The operation of the machine is as follows:— The gas being lighted (by applying a match through the opening 6^a, see Fig. 3) and the heat being applied directly under the point where the collar tips are turned over, imparts the required heat at the right spot. The treadle is forced downward by the foot thereby raising or tipping the end of the plate in the direction of the dotted lines 27, in Fig. 1, so that the tip of a collar can be placed on the

machine bed at the required point. The foot is now removed from the pedal thereby allowing the plate 10, to be forced down upon the collar tip. The folding plate being now turned up and over, as in Figs. 1 and 2, the body of the collar is carried down upon the top of the plate 10, thereby giving the required bend to the tip of the collar.

I claim as my invention—

- 10 1. In a machine for turning over the tips of stand up collars, the combination of a supporting frame having a chamber at its under side with a gas burner located in said chamber, a flat plate pivoted to supports on the top of the machine bed and provided with an arm extending back of its pivots, a connecting-rod secured to said arm and pivoted to a treadle for tipping said plate upward, a spiral spring interposed between said arm and the table top, for holding the pivoted plate downward to the machine bed with a yielding force, and a pivoted folding plate covered with cloth for turning over the collar tips, substantially as described.
- 25 2. In a machine for turning over the tips of stand up collars, the combination with the

supporting frame of the machine, of a flat pivoted plate, a spring for holding said plate down to the bed of the machine with yielding force, a connecting rod connected with an arm at the rear of the pivoted plate and with a treadle at its lower end, for tipping the plate upward, a cloth covered folding plate pivoted at the front of the machine, and means for heating the bed plate, substantially as and for the purposes described.

3. In a machine for turning over the tips of stand up collars, the combination with the supporting frame and table, of a flat plate pivoted to the top of the machine and having its rear end extending beyond its pivotal centers and a connecting-rod and treadle, for tipping it up, a spring for forcing it down against the bed of the machine, with a yielding force, and a folding plate for turning the collar over the end of the pivoted plate and thereby folding the collar tip, substantially as described.

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Witnesses:

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