

(No Model.)

A. W. CUMMINGS.
MACHINE FOR FORMING COLLARS.

No. 483,139.

Patented Sept. 27, 1892.

Fig.1

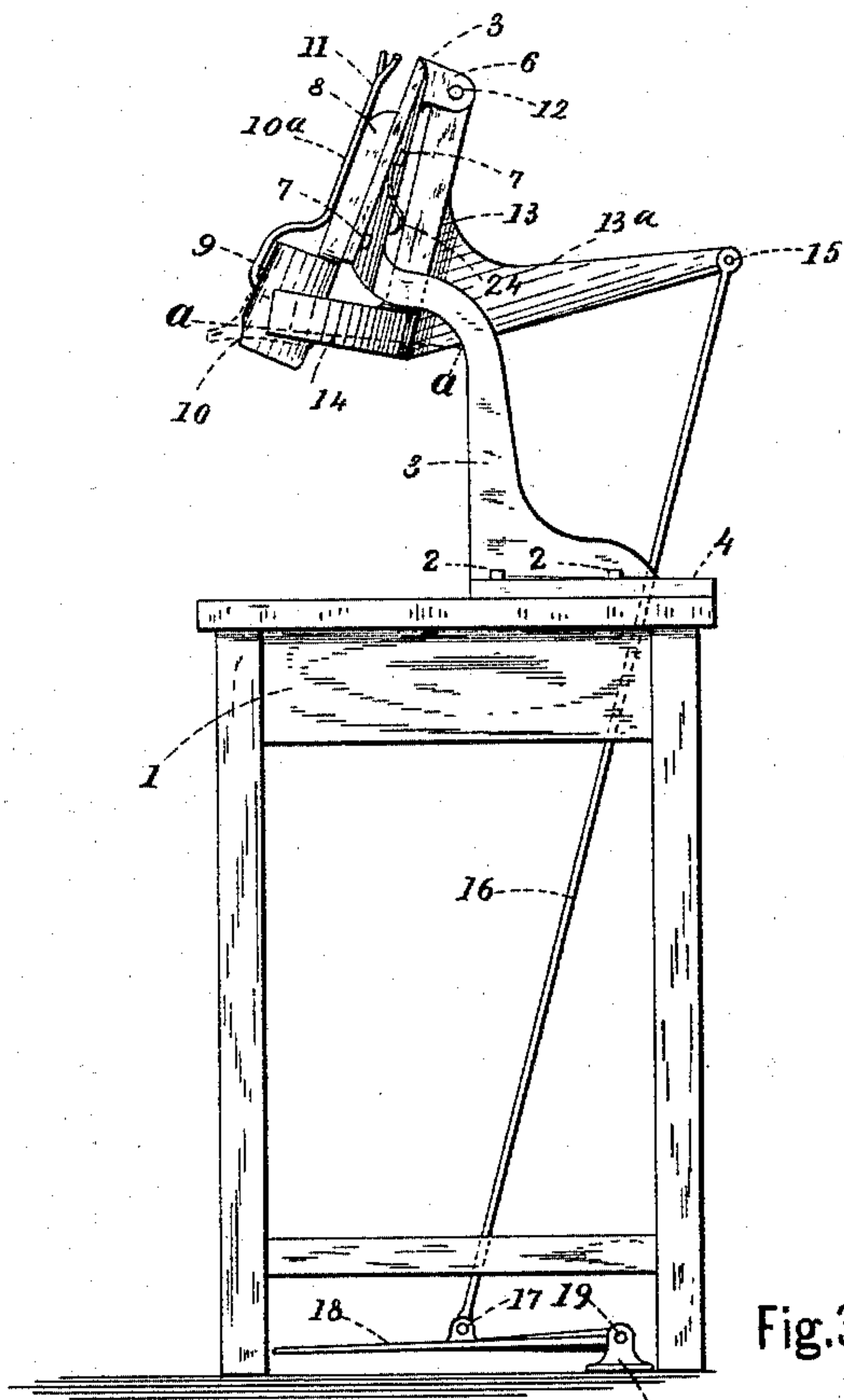


Fig.2

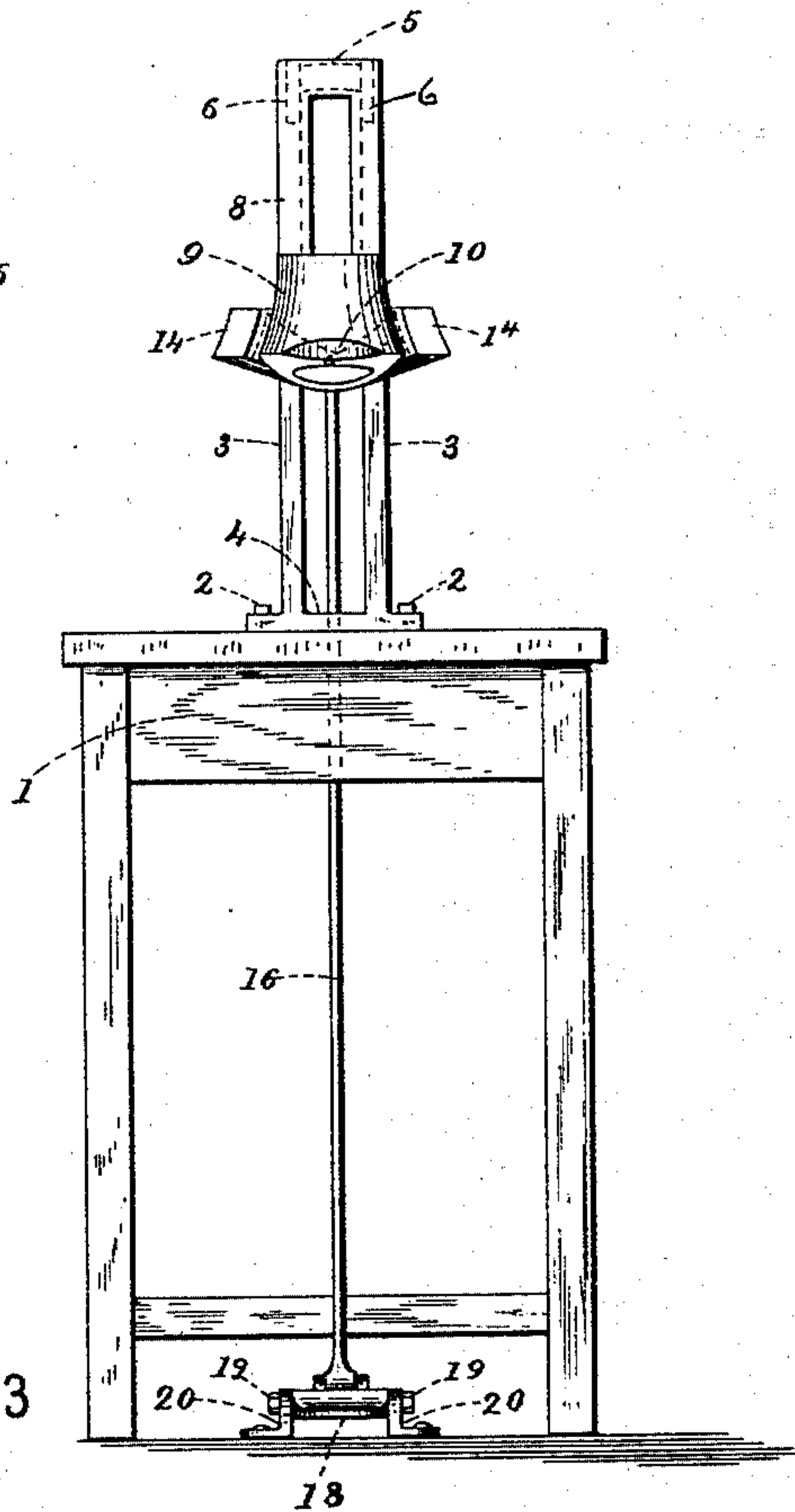
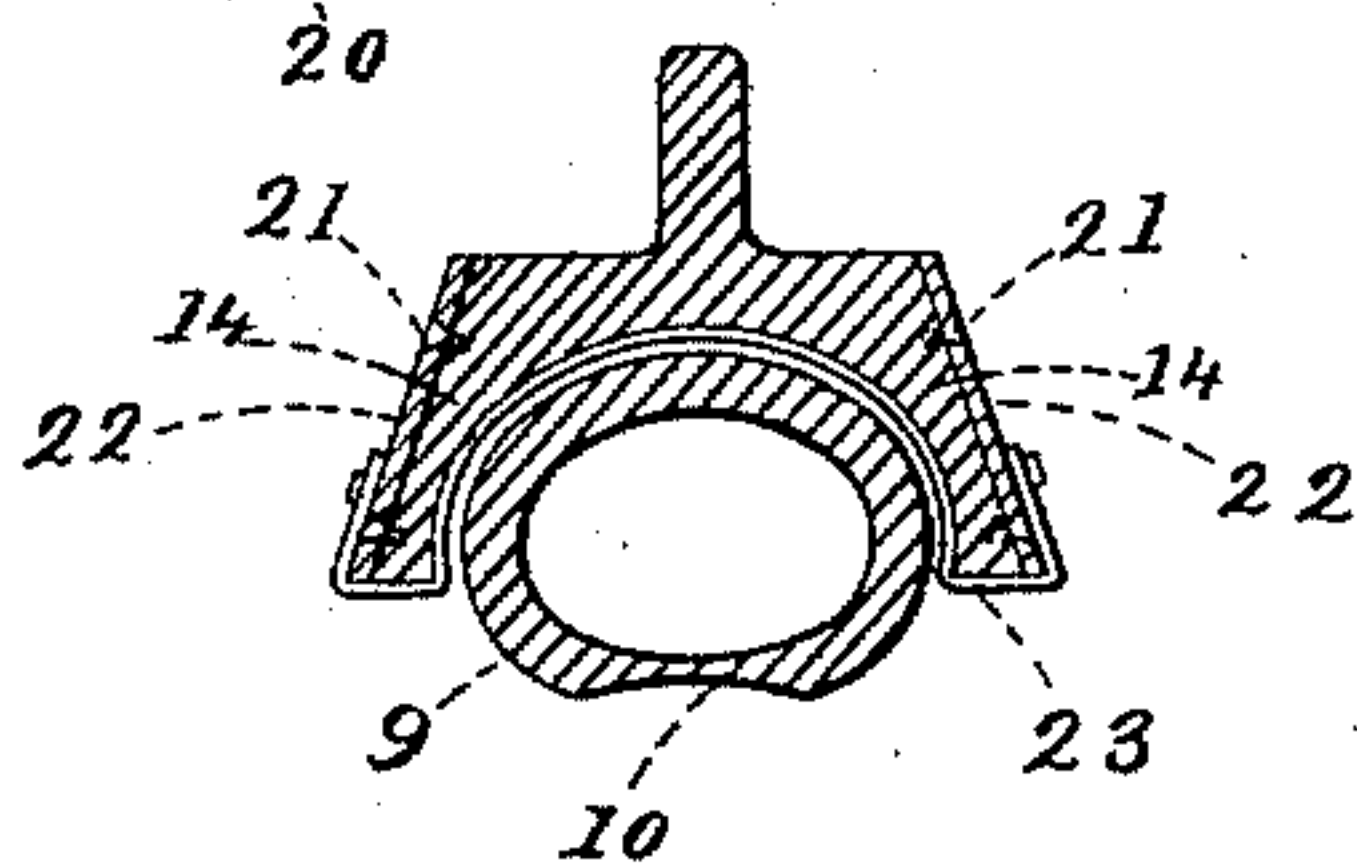


Fig.3



Witnesses.

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MACHINE FOR FORMING COLLARS.

SPECIFICATION forming part of Letters Patent No. 483,139, dated September 27, 1892.

Application filed June 15, 1892. Serial No. 436,789. (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 Forming Collars, of which the following is a specification.

My invention relates to an improved machine for conveniently and rapidly forming a linen turn-down collar to the required shape to fit properly after being laundered and passed through the ironing-machine, all of which will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of the machine complete, showing its several parts in position for pressing and forming a collar. Fig. 2 is a front elevation of the same. Fig. 3 represents a substantially horizontal section in or about line *a a*, Fig. 1.

In Figs. 1 and 2 of said drawings, 1 represents a stand, upon which the machine is secured by bolts 2. The two side supporting frame-pieces 3, bottom plate 4, and top cross-piece 5 are all preferably formed in one piece of cast-iron; but they may be made in parts of any suitable material and bolted together in any well-known way. At the back of the supporting-frame are two ears 6, and at the front is bolted by bolts 7 a frame-plate 8, carrying the former 9, upon which the collars are formed. This former is a fixed or stationary device, as will be noticed, and is formed so as to be very nearly the shape of the neck of a person, so that a collar formed thereon will fit and wear easily when put on. The front lower portion of the stationary collar-former is cut away at 10, so as to leave room for the fingers while holding a collar to be formed, because the former is hot while being used and it is necessary to leave room for the fingers to operate without touching it.

Connected with the former 9, which is hollow, as shown in Figs. 2 and 3, is a pipe 10^a, leading into it and connected with any suitable well-known gas-burner. It is provided with the usual forked ends at the top 11 to receive the rubber tubing for conducting gas

and air; but as this is not a part of my invention and is of well-known construction for heating the former a further description here is not required.

Pivoted to the ears 6 by a pin 12 (see Fig. 1) is an angular arm consisting of the parts 13 and 13^a, having at the lower end of the portion 13 the forming-jaws 14, and to the arm or portion 13^a is pivoted by a pin 15 (see Fig. 1) a connecting-rod 16, having its opposite or lower end pivoted by a pin 17 to a foot lever or treadle 18. This treadle 18 is pivoted by pins 19 to two supporting-ears 20. On each side of the forming-jaws 14 is firmly secured by screws 21 (shown in Fig. 3) a piece of wood 22. This construction is necessary, so as to provide the means for tacking on a piece of cloth 23 to prevent the hard metal from coming in contact with the collar. Between the back of the upper portion of one of the frame-pieces 3 and the arm 13 is secured to the frame-piece by the bolt 7 (see Fig. 1) a spring 24, which keeps the forming-jaws 14 back away from the former 9 when not forced forward by the treadle 18.

The operation of the machine is simple and easily understood. The foot being removed from the treadle, the spring 24 (together with the weight of the forming-jaws) forces them away from the former. A collar is now put in between the former and forming-jaws and is then drawn around the former and held there until a pressure of the foot on the treadle forces the forming-jaws forward and presses the collar to the shape required.

I claim as my invention—

The combination of a stationary hollow former and a means for heating it with forming-jaws pivoted to the upper portion of the frame, so as to have a swinging motion to or from the former, a spring for keeping said forming-jaws away from the former and in a normal position, a connecting-rod pivoted to the forming-jaw arm, and a treadle for forcing them forward when shaping a collar, substantially as described.

ADELBERT W. CUMMINGS.

Witnesses:

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