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L. M. ABBATE

2,143,427

STAPLING MACHINE

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Fig. 1.

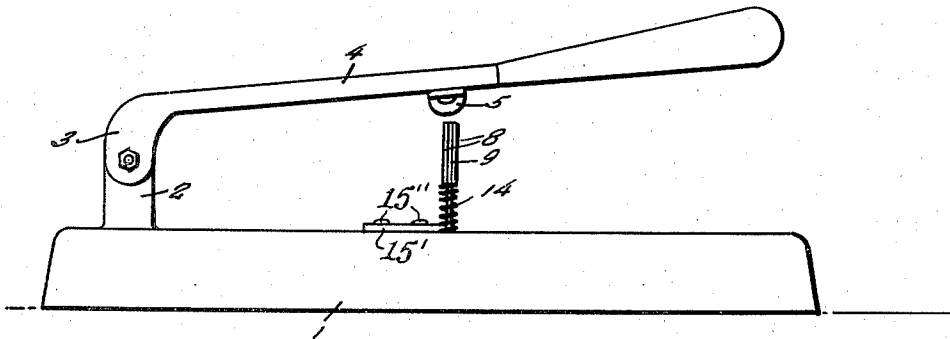


Fig. 2.

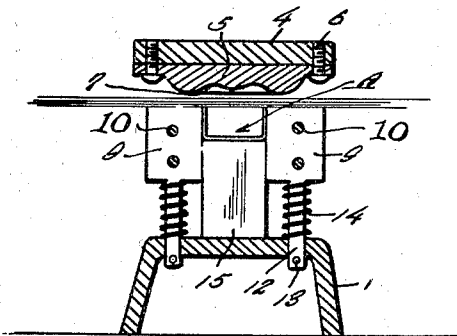


Fig. 3.

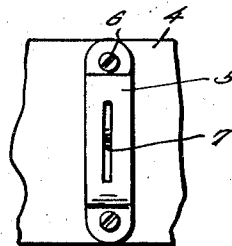
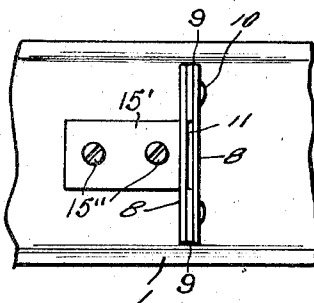


Fig. 4.



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STAPLING MACHINE

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2 Claims. (Cl. 1—4)

This invention relates to a stapling machine, the general object of the invention being to provide a simple device for forcing staples through sheets of paper or the like and bending the limbs of the staples over so that the staple will connect together the sheets.

This invention also consists in certain other features of construction and in the combination and arrangement of several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a side view of the device.

Figure 2 is a section on the line 2—2 of Figure 1.

Figure 3 is a bottom plan view of the die member.

Figure 4 is a plan view of the staple holding means.

In this drawing, the numeral 1 indicates the base of the device which has an upright 2 at one end to which is pivoted the downturned end 3 of the handle member 4. A die member 5 is fastened to the under face of an intermediate part of the handle member 4 by the screws 6 and this member is provided with the double curved grooves 7 for bending over the limbs of a staple pressed into the grooves.

The holding means include a pair of elongated plates 8 with a pair of narrow plates 9 between them, the plates being suitably connected together by the fastening means 10. The plates 9 are spaced apart so as to form a slot 11 for receiving the staple A, as shown in Figure 2. The plates 9 are each provided with a depending shank 12 which passes slidingly through a hole in the base and a pin 13 extends through the lower end of each shank to prevent the shank from entirely leaving the hole. A spring 14 encircles each shank and said springs tend to hold the four plates 8 and 9 in raised position. A vertically arranged stationary plate 15 extends upwardly from the base into the slot 11 when the plates 8 and 9 are in raised position and the upper end of this plate 15 forms a seat for the staple. This plate 15 has a horizontal part 15' at its lower end which is fastened to the top of the base 1 by the screws 15'' as shown in Figures 1 and 4.

As will be understood when the device is to be used a staple is placed in the slot 11 so that it will rest on the upper end of the plate 15, as shown in Figure 2 and then the sheets to be connected together are placed over the staple supporting means and under the handle. Then the handle is depressed so as to force the plates 8 and 9 downwardly and to cause the ends of the staple to pass through the sheets and be engaged by the curved parts of the grooves 7 which acts to bend the limbs over upon the sheets and thus the sheets are firmly connected together by the staples.

It is thought from the foregoing description that the advantages and novel features of the 15 invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of 20 the appended claims.

Having described the invention, what is claimed as new is:—

1. A stapling machine comprising a base, a handle pivoted to the base, an upsetting die carried by the handle, and staple holding means carried by the base and including a stationary part connected with the base and extending upwardly therefrom, a spring pressed part forming a socket with the stationary part for receiving 30 the staple, said spring pressed part having depending shanks and the base having holes therein through which the shanks pass, and springs on said shanks engaging the base and parts of the spring-pressed part.

2. A stapling machine comprising a base, a handle pivoted to the base, an upsetting die carried by the handle, an upright plate having its lower part connected with the base, said base having holes therein one adjacent each edge of the upright part, a pair of laterally spaced small plates each having a shank at its lower end, said shanks passing through the holes in the base, spring means engaging the shanks for holding the plates and the shanks in raised position, said 45 small plates engaging the side edges of the upright plate, a pair of long plates between which the small plates are arranged, and means for connecting the long plates with the small plates to form a socket into which the upright plate extends,

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