F. C. SUCHY.

STAPLE SETTER.

APPLICATION FILED MAY 5, 1919.

1,343,289.

Patented June 15, 1920.

Fig. 1.

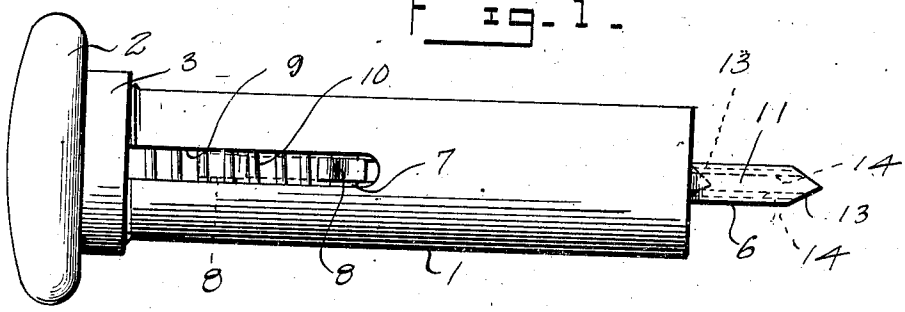


Fig. 2.

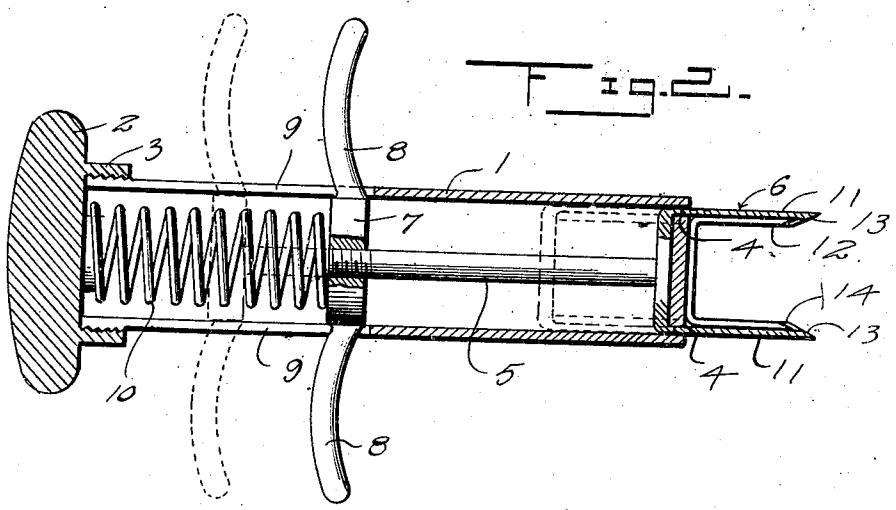


Fig. 3.

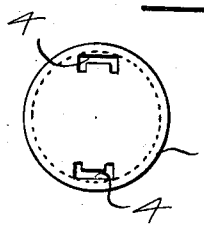
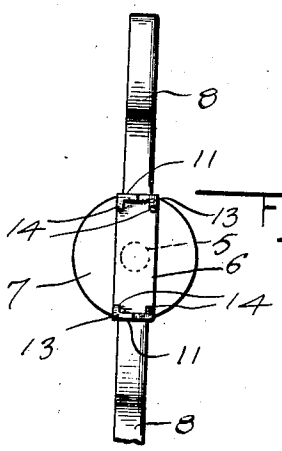


Fig. 4.



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STAPLE-SETTER.

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To all whom it may concern:

Be it known that I, FRANK C. SUCHY, a citizen of the United States, residing at San Antonio, in the county of Bexar and State of Texas, have invented certain new and useful Improvements in Staple-Setters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to devices for setting staples in paper board boxes for assembling them from a knock down condition and is especially adapted to use in assembling boxes used by florists and the like.

The invention has for its object the provision of an improved construction of staple setting device by which openings are made for and the staple is effectually positioned in the box.

Another object of the invention is the provision of flanges on the prongs for piercing the box to hold the staple in position while being set in place, and permitting the use of thin metal in making the staples.

In the drawings,

Figure 1 is a side view in elevation of my improved staple setter,

Fig. 2, a longitudinal sectional view,

Fig. 3, an end view of the barrel, and Fig. 4, an end view of the setting member.

Referring to the drawings in which similar reference characters indicate corresponding parts in the several views, 1 indicates the barrel of my machine having one end open and threaded to receive a handle 2 having a threaded socket 3 to fit over the barrel end. The other end of barrel 1 is closed and provided with U-shaped slots 4.

5 indicates the stem of the setter which has a U-shaped piercing member 6 at one end, while its other end is threaded to engage a threaded opening in the center of disk 7. Disk 7 is provided with diametrically opposed arms 8 that extend through slots 9 in barrel 1, and are curved to receive the fingers of the operator. 10 indicates an expansible coil spring mounted between handle 2 and disk 7 to normally hold the prongs extended from barrel 1 and is of sufficient tensile strength to overcome the resistance of the paper box to be stapled.

The arms 11 of U-shaped piercing member 6 form the prongs for carrying a staple indicated at 12, said arms having their ends tapered and provided with cutting edges 13 which project through slots 4 in the end of the barrel. The sides of said arms 11 are also flanged as at 14 to securely hold the staple while being inserted in the box.

In operation, a staple 12 is placed between the arms 11 and with its head engaging the end of barrel 1. The arms 11 carrying the staple are then forced through the box or other object to be secured. The operator then withdraws the prongs 11 by pulling with the fingers on arms 8 holding the end of barrel 1 against the head of the staple until the arms 11 are withdrawn from the openings made in the box, the ends of staple may be then bent with any suitable tool to complete the fastening.

It will be apparent that distance of the withdrawal of the arms 11 must be so regulated that they will project slightly beyond the surface of the end of the barrel.

Having thus described my invention what I claim is:

1. In a staple setter, a barrel having longitudinal slots in its side and having one end slotted, a stem movably mounted in the barrel, piercing arms on said stem and extending through the slots in the end of the barrel, a disk secured to said stem, arms extending from said disk and through the slots in the side of the barrel, a head secured to the barrel, and a spring engaging said head and disk to hold said piercing arms normally extended from the barrel.

2. In a staple setter, a barrel having longitudinal slots in its side wall and U-shaped slots in its end, a stem movably mounted in the barrel, a U-shaped piercing member on one end of said stem, the arms of said piercing member flanged and extending through the U-shaped slots in the end, a disk secured to the other end of the stem, arms extending from said disk and through the longitudinal slots in the barrel, a head mounted on the end of the barrel, and a spring engaging said disk and head.

In testimony whereof I affix my signature.

FRANK C. SUCHY.