

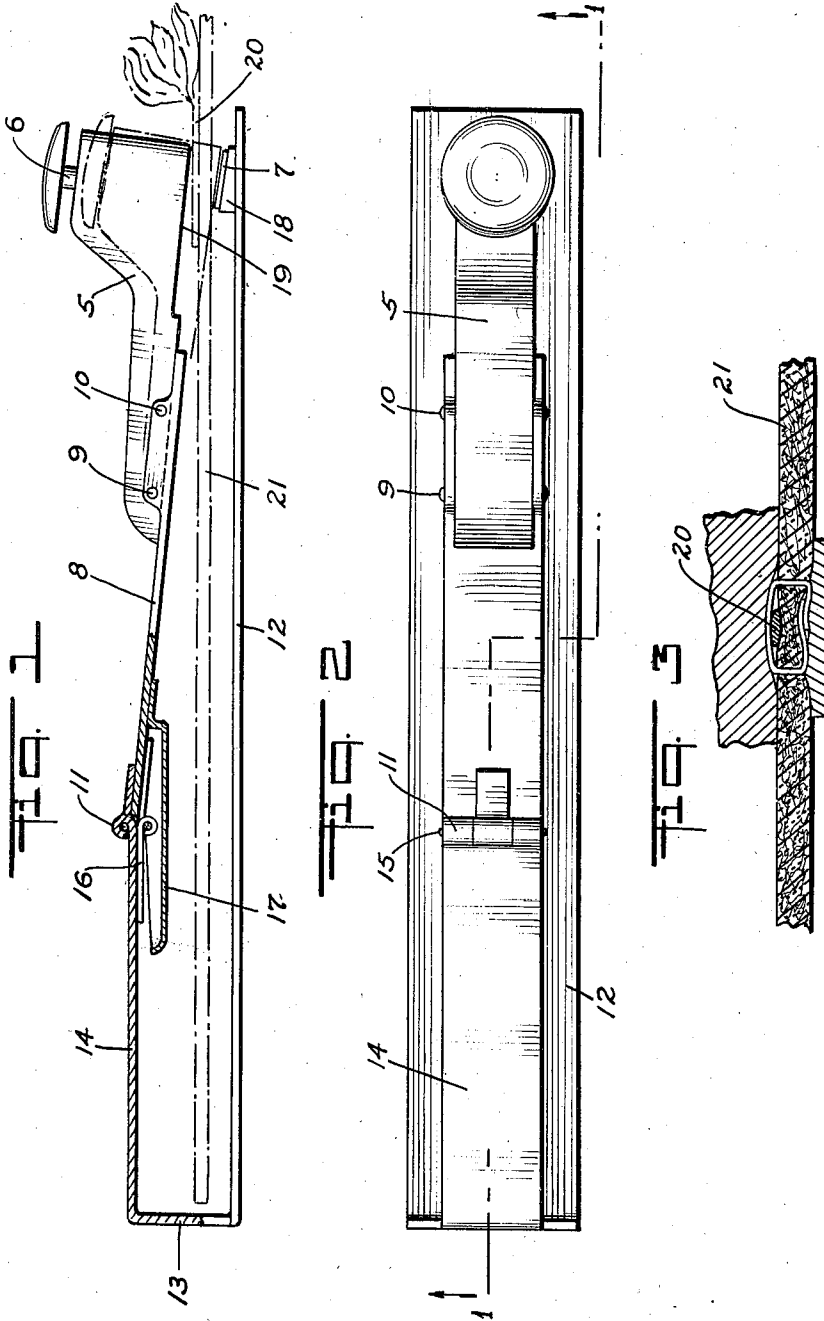
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STAPLING MACHINE

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STAPLING MACHINE

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3 Claims. (Cl. 1—3)

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This invention relates to stapling machines.

Broadly, it is an object of my invention to provide a stapling machine with hingeable, extensible arms to permit the stapling of various articles at a greater distance from the edge of other articles.

More specifically, it is an object of my invention to provide a hingeable, extensible arm which is rigidly attached to the well-known staple machine, and a member attached to the hingeable arm to permit large articles to be passed between the staple machine and the anvil, in order to staple different articles, flowers, and the like, at a large distance from the edge of such base.

There are many staple machines manufactured and sold which permit the fastening of one or more pieces of paper or other articles together, but a short distance from the edge of the paper. I have found that such devices cannot be used to staple articles at a great distance from the edge of the base. For example, in the manufacture of casket blankets upon which flowers are attached to a fabric base, it is necessary to staple such flowers several feet from the edge of such blanket in order to attach such flowers to the entire casket blanket. Such a blanket generally measures approximately four feet by eight feet, so that a long extensible arm is necessary, in addition to sufficient height to permit the flowers and the blanket to pass between the staple machine and the anvil which bends the staple in position.

For a fuller understanding of the nature and objects of my invention, reference is had to the following detailed description in connection with the accompanying drawing, in which:

Figure 1 is a section taken through line 1—1 of Figure 2 and showing a flower being attached to a blanket.

Figure 2 is a top view of the device.

Figure 3 is an enlarged sectional view of a portion of the blanket and showing a staple bent to hold the stem of a flower to the blanket.

Referring to the drawing, numeral 5 represents a well-known staple machine having a plunger 6 to drive the staples within the machine through materials of different type for attaching such materials together or attaching one material upon the other, the staples being bent by the well-known anvil 7, having grooves or indentations (not shown) to bend the legs of the staple in holding position as shown in Figure 3. An extension arm 8 is attached at its forward end by rivets or screws 9 and 10, to the rear portion of the stapling machine 5, so that the staple ma-

chine is rigidly attached to the arm 8, the arm 8 extending a considerable distance to the rear of the staple machine. The rear portion of the arm 8 is bent to form a portion of a hinge 11.

A rigid base member 12 extends slightly beyond the front of the staple machine and is bent at its rear portion upwardly several inches, as shown at 13, and back upon itself forming a forwardly extending portion 14. The extreme end of the forwardly extending portion 14 is bent in a hinge portion to cooperate with the rear hinge portion of extensible arm 8 forming the complete hinge 11. A pin 15 passing between the parts forming the hinge, lock the extension arm 8 and the forwardly extending portion 14 together. A spring 16 is attached to the rear portion of extensible arm 8 and the forward portion of the extending portion 14 and beneath the hinge 11 to exert a constant upward pressure upon the extensible arm 8, thus tending to keep the staple machine in its upward position. A guard 17 is attached to a portion of the extensible arm 8 to cover the spring 16 so that articles inserted between the base 12 and the upper portion of the device do not become snared, enmeshed or tangled with the spring 16 or any possible portion of the device.

At the forward part of the base 12 and directly beneath the head of the staple machine there is an angular block 18 to which the anvil 7 is attached, the angle of the block 18 being such that when the staple machine is depressed, the anvil is parallel to the lower edge 19 of the staple machine so that when the staples are driven downward by the plunger 6, the legs of the staples will be driven at right angles to the face of the anvil 7. The well-known depressions in the anvil should necessarily be deep in order to accommodate longer legs on the staples, since this device is contemplated to attach articles such as the stems of flowers 20 to a base member, such as a casket blanket 21. The depth of the depression will permit the accommodation of the thickness of a blanket and the stems of flowers and bend the staple in a manner similar to that shown in Figure 3 so that the stem of the flower will be attached under sufficient pressure of the staple head without permitting the staple head or bridge to cut the stem of the flower.

With this device, articles such as the stems of flowers can be attached to a base member such as a casket blanket permitting such stems to be attached virtually three feet from the edge of the blanket so that the entire casket blanket can be covered all over with flowers attached thereto.

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In this manner such flowers can be rigidly and firmly attached, thus saving a great deal of time and labor over the manner heretofore used in attaching flowers to casket blankets.

It is obvious that the base 12 can be extended a considerable length to the rearward the same as the forwardly extending portion 14, so that for different purposes staples may be driven a still greater distance than that given heretofore and for the purpose of attaching flowers to casket blankets.

By maintaining an upward spring pressure upon the staple machine and the extensible arm 8, the device can be more rapidly used and with less effort since rigid downward drive of plunger 6 is all that is necessary since the staple machine would rise automatically to a pre-determined height.

It is further obvious that various changes and modifications may be made in the details, construction and operation of parts without departing from the general spirit of the invention.

I claim:

1. In combination with a staple machine, a hingeable, extensible arm rigidly attached to said staple machine, a rigid base member bent upward and back upon itself at its rear end forming a forwardly extending arm spaced apart from said base member, said forwardly extending arm hinged to said hingeable arm, an anvil rigidly attached to the front end of said base and angularly disposed thereto, said angular anvil being parallel to the base of said staple machine when said machine is in depressed position.

2. In combination, a staple machine with a hingeable, extensible arm rigidly attached to said staple machine, a rigid base member bent upward and back upon itself at its rear end form-

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ing a forwardly extending arm spaced apart from said base member, said forwardly extending arm hinged to the rear end of said hingeable arm, spring means attached beneath said hingeable arm and said forwardly extending arm to exert a forward pressure upon said hingeable arm and said staple machine, an anvil rigidly attached to the front of said base and angularly disposed thereto, said anvil angularly positioned to permit said staple machine to expel staples at right angles to said anvil, said anvil being parallel to the base of said staple machine when said machine is in depressed position.

3. In combination, a staple machine with a hingeable, extensible arm rigidly attached to said staple machine, a flat rigid base member extending from the front of said staple machine to a long distance rearwardly and bent upwardly and back upon itself at its rear end forming an upwardly extending arm spaced a distance from said base to permit articles of various thickness to be inserted between said base and said forwardly extending arm, said forwardly extending arm hinged at its front end to the rear of said hingeable arm, spring means attached to the rear of said hingeable arm and the forward end of said extending arm to exert an upward pressure upon said hingeable arm and said stapling machine, a guard for said spring means, an anvil rigidly attached to the front of said base member and angularly disposed thereto, said anvil angularly positioned to permit said staple machine to expel staples at right angles to said anvil, said anvil being parallel to the base of said staple machine when said staple machine is in depressed position.

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