

W. R. GOOD.
 GUARD AND STOP FOR WIRE STITCHING MACHINES.
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1,054,196.

Patented Feb. 25, 1913.

Fig. 1.

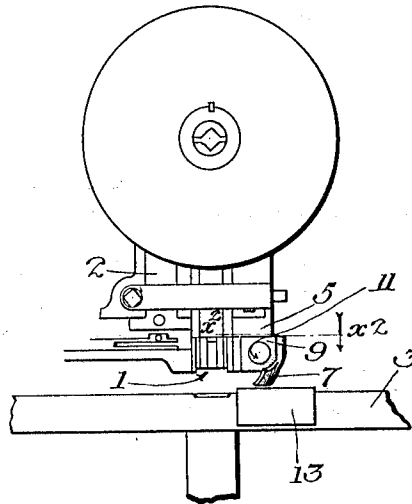


Fig. 2.

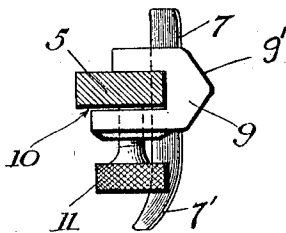
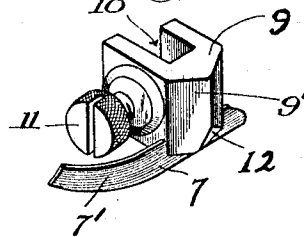


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM R. GOOD, OF WATTS, CALIFORNIA.

GUARD AND STOP FOR WIRE-STITCHING MACHINES.

1,054,196.

Specification of Letters Patent.

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Application filed April 24, 1912. Serial No. 692,949.

To all whom it may concern:

Be it known that I, WILLIAM R. GOOD, a citizen of the United States, residing at Watts, in the county of Los Angeles and State of California, have invented a new and useful Guard and Stop for Wire-Stitching Machines, of which the following is a specification.

This invention relates to a guard for use in connection with machines for stitching books, pamphlets, etc., with wire staples and the main object of the invention is to provide a guard which will prevent the fingers of the operator from coming under the stitching dies in feeding the book to the machine.

A further object of the invention is to provide means for facilitating the arrest of the book in proper position for stitching.

Another object of the invention is to prevent the feeding of more than one book or pamphlet through the machine at one operation, thereby preventing the binding together of two or more copies of the pamphlet or book.

Other objects of the invention will appear hereinafter.

The accompanying drawings illustrate an embodiment of the invention, and referring thereto:

Figure 1 is a front elevation of a portion of the stitching machine, showing the application of the guard and stop device thereto. Fig. 2 is a horizontal section on line x^2-x^2 , in Fig. 1. Fig. 3 is a perspective of the guard and stop device.

1 designates the stitching mechanism of a wire stitching machine, 2 the supporting bracket therefor, and 3 the saddle or support for the book. The machine shown is that which is known as the "Boston wire stitcher." In such machine there is provided at one side of the stitching mechanism 1, a fixed frame portion 5 constituting a vertical rib, and I prefer to utilize this portion of the frame as the means for adjustment of the guard and stop device. Said guard and stop device consists of a plate or flange 7 which may be formed on, or carried by a fitting 9 which is slotted or grooved as at 10 to fit over the frame portion or rib 5 aforesaid, and is provided with a set screw 11 which engages with said frame portion or rib 5 to hold the guard and stop device in any desired vertical position. The plate 7 aforesaid is curved and

inclined downwardly and laterally in the direction of feed, so as to avoid any danger of catching on the book or on the fingers of the operator's hand. The forward portion 7' of the plate 7 is inwardly deflected so as to serve as a guide enabling the hand of the operator to be deflected forwardly away from the stitching mechanism without interfering materially with the speed of the feeding operation. The face of the fitting 9 on the side away from the stitching mechanism is preferably wedge shaped as shown at 9', and the lower portion of said wedge shaped face is beveled as shown at 12, so as to prevent any possibility of paper which has crumpled or buckled up out of position on the saddle from catching on the guard.

The device is used as follows: The book, indicated at 13, is placed on the saddle 3 and slid along the same so as to bring it beneath the guard plate 7, the said guard plate being adjusted by the set screw 11 so that it comes close to the book, this adjustment providing for use of the guard device with different thicknesses of books. The operator will push the book forward one or more times according to the number of stitches to be made and at each forward motion the fingers will be arrested by the guard plate 7, thereby preventing the operator's fingers from coming beneath the stitching dies and also facilitating the arrest of the book in the right position for stitching. By reason of the greater confidence which the operator feels and also by reason of the stop action of the guard plate, the speed of stitching may be materially increased by use of this device.

It will be understood that this device is particularly intended for use when the operation of saddle stitching is being performed and the book is supported and slid along on a saddle or rail with the book folded back and the fold presented uppermost. In such case the feeding operation requires the use of both hands of the operator, the right hand being placed on the book and sliding it along the rail to bring it under the stitching mechanism, and the left hand then taking the book and drawing it along the rail away from the stitcher. In both of these operations the hands move in a more or less circular manner and in order not to interfere with the speed of the operation it is necessary that the right hand particularly should not be brought to an

abrupt stop but should be guided or deflected in a circular course away from the stitching mechanism. This is performed by the forward inwardly curved extension 7' of plate 7, the device acting as a stop as far as movement toward the stitching mechanism is concerned, but acting as a deflector or guide in that it deflects such movement into a movement forward away from the stitcher.

What I claim is:

1. In a wire stitching machine, a guard device comprising a plate located over the book support member and adjacent to the book support member and to the stitching mechanism, said plate being inclined downwardly and laterally in the direction of feed and having its forward portion curved laterally in the direction of the feed.
2. In a wire stitching machine, a guard

device comprising a plate located over the book support member and adjacent to the book support member and to the stitching mechanism, said plate being inclined downwardly and laterally in the direction of feed and having its forward portion curved laterally in the direction of the feed, a fitting for supporting said plate, said fitting having a groove at one side for fitting over a supporting member on the stitching machine, and a set screw working in said fitting for engaging said supporting member.

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this 18th day of April, 1912.

WILLIAM R. GOOD.

In presence of—

ARTHUR P. KNIGHT,
M. E. BLASDEL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."