

J. K. McCOMB.  
 HOOK AND EYE CLAMP FOR SEWING MACHINES.  
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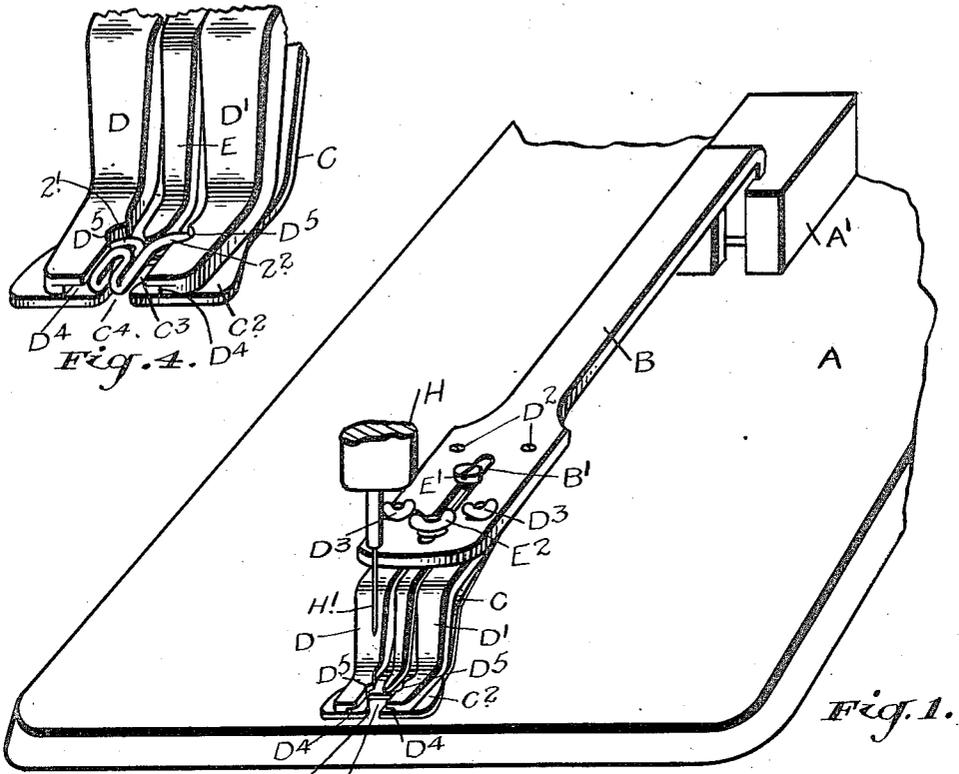


Fig. 1.

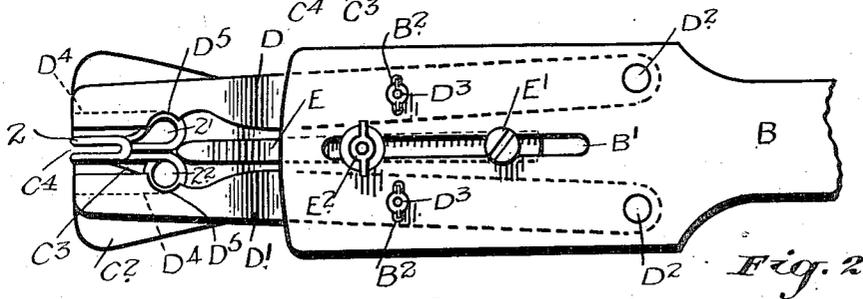


Fig. 2.

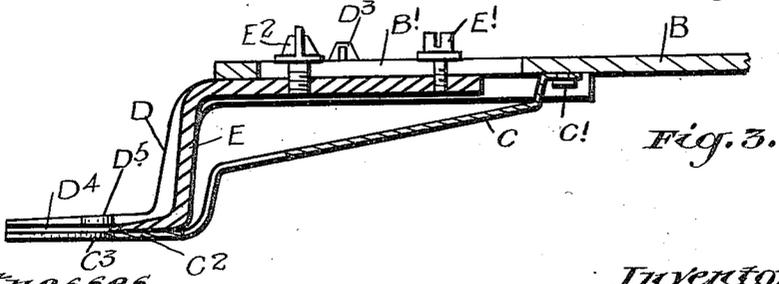


Fig. 3.

Witnesses.  
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# UNITED STATES PATENT OFFICE.

JAMES KENNEDY McCOMB, OF OSHAWA, ONTARIO, CANADA.

HOOK AND EYE CLAMP FOR SEWING-MACHINES.

1,032,017.

Specification of Letters Patent.

Patented July 9, 1912.

Application filed October 27, 1910. Serial No. 589,434.

To all whom it may concern:

Be it known that I, JAMES KENNEDY McCOMB, of the town of Oshawa, in the county of Ontario, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Hook and Eye Clamps for Sewing-Machines, of which the following is the specification.

My invention relates to improvements in hook and eye clamps for sewing machines and the object of the invention is to devise an attachment for button sewing on machines which will hold the hook or eye on the swinging arm of the machine so that it may be sewn onto the material by the machine as the arm reciprocates from side to side.

The invention includes the novel features of construction and arrangement and combination of parts hereinafter described and more particularly defined by the appended claim.

The invention is illustrated in the accompanying drawing, in which:—

Figure 1, is a general perspective view of my device showing a portion of the button sewing on machine to which my device is connected. Fig. 2 is an enlarged plan detail of the operating end of the swinging arm of the button sewing on machine with my attachment connected thereto. Fig. 3, is a longitudinal section through Fig. 2. Fig. 4 is an enlarged perspective detail of the hook or eye holding jaws and their co-acting parts.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is the table of a button sewing on machine provided with the usual swing block A' operated by the usual cam mechanism which I do not show or describe as it forms no part of my present invention.

B is an arm connected to the swing block A' in the usual manner. The outer end of the arm B is provided with a longitudinal slot B'.

C is a spring arm secured beneath the arm B by a screw C' (see Fig. 3). The outer end of the spring arm extends downwardly and is provided with a flared end C<sup>2</sup> provided with a central opening C<sup>3</sup> having an entering slit C<sup>4</sup> extending through the front of the flared end C<sup>2</sup>.

D and D' are jaw members pivotally connected beneath the enlarged end of the arm B by suitable screws or bolts D<sup>2</sup>. The jaw

members are adjustably secured in position by set screws D<sup>3</sup> passing through arc shaped slots B<sup>2</sup> in the arm B. The outer end of the jaw members are depressed in proximity to the ends C<sup>2</sup> of the spring arm C and table A. The jaw members are each provided with a rabbet D<sup>4</sup> opposing one another and located beneath each jaw member and terminating in an arc shaped recess D<sup>5</sup> designed to register with the outside portion of the periphery of the loops of the hook or eye when placed in position.

E is a centering finger adjustably secured in position beneath the arm B by set screws E' and E<sup>2</sup> extending through the longitudinal slot B' of the arm B.

H is a portion of the supporting arm in which the needle H' of the button sewing on machine is supported and operated.

2 is a hook which is shown placed in position in my attachment in Figs. 2 and 4.

Having described the principal parts involved in my invention I will briefly describe the operation of the same.

It will be understood that the block A' and arm is swung so as to swing from side to side to alternately carry the loops 2' and 2<sup>2</sup> of the hook 2 beneath the needle H' of the machine. When placing the hook 2 in position all that it is necessary to do is to slip the looped end of the hook 2 into the opposing rabbets D<sup>4</sup> until the loops register with the arc shape recesses D<sup>5</sup>, the centering arm forming a stop insuring of the hook being properly centered and located beneath the arc shape portions D<sup>5</sup>.

It will of course be readily seen that the jaw members D and D' of the centering finger E may be adjusted by means of the set screws E<sup>2</sup> and D<sup>3</sup> so as to hold any size of hook or eye. It will also be seen that the jaws D' and D<sup>2</sup> may be adjusted or swung laterally by loosening the nuts D<sup>3</sup> in the slots B<sup>2</sup> so as to suit any width of hook and eye within determinate limits. By tightening the nuts D<sup>3</sup> the jaws D' and D<sup>2</sup> may be rigidly held in position.

From this description it will be seen that I have devised a very simple device whereby hooks and eyes may be securely held in position while they are sewn onto the material by the button sewing on machine.

What I claim as my invention is:

In a hook and eye attachment for button sewing on machines, the combination with the swinging arm having a longitudinal slot

therein and arc-shape slots to each side thereof, of jaw members pivotally connected at the rear end to the swinging arm, adjusting nuts extending through the arc-shape slots into the jaw members, opposing rabbets formed in the outer end of the jaw members terminating at their inner ends in recesses formed concentric to the center of each of the eye holes of the hook, a spring plate secured to the swinging arm between the inner ends of the jaw members and extending outwardly beneath the outer ends of the jaw members and provided with slots designed to fit beneath the inner edge of the hook so as to support the hook and having an extension extending through the front edge of the spring plate, a centering finger having a substantially V-shape front end fitting between the eye and the hook, and adjusting screws extending through the longitudinal slot of the swinging arm into the centering finger, as and for the purpose specified.

JAMES KENNEDY McCOMB.

Witnesses:

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