

(No Model.)

T. H. SEYMOUR.
BUTTON DETACHING MACHINE.

No. 510,197.

Patented Dec. 5, 1893.

Fig. 1.

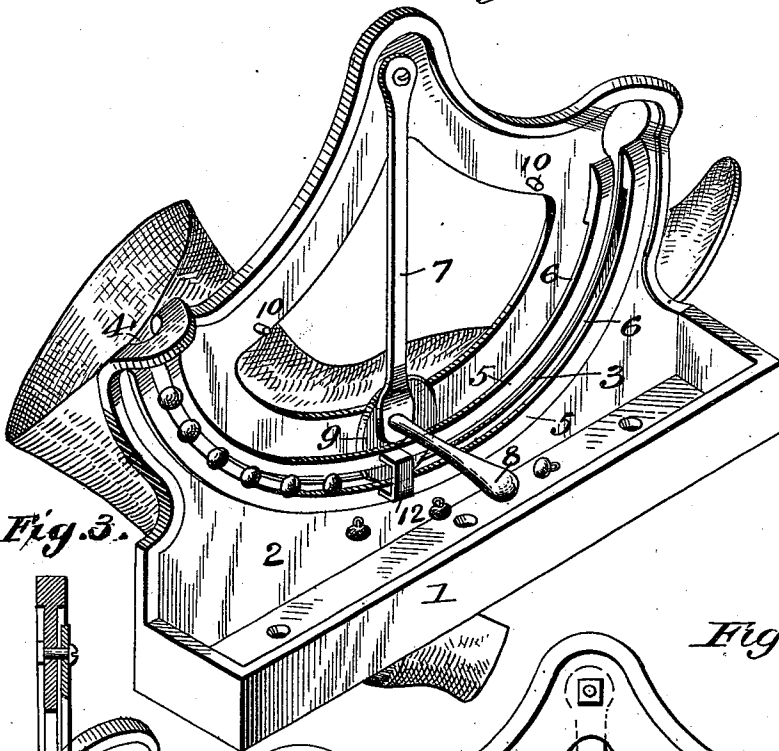


Fig. 2.

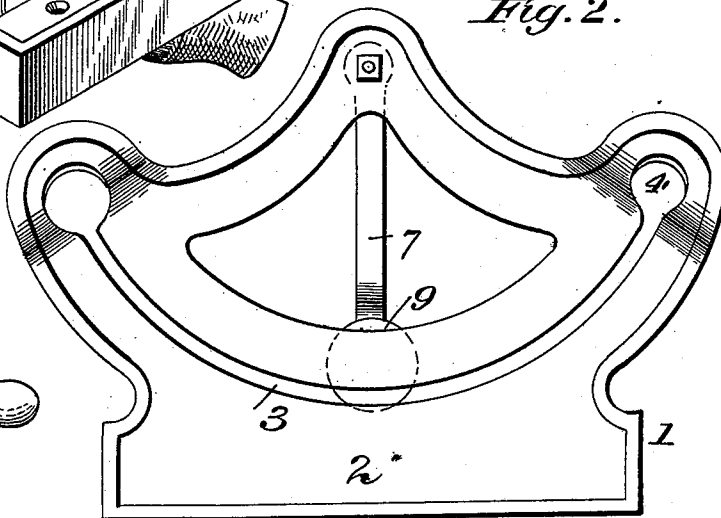
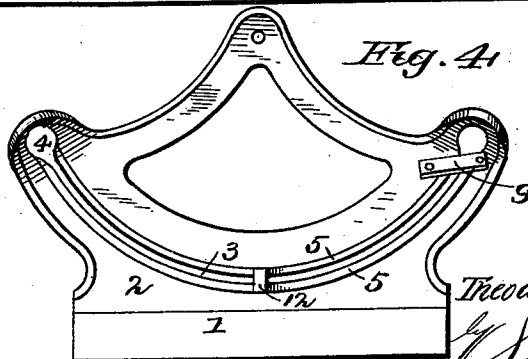


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

THEODORE HOLLY SEYMOUR, OF MOUNT VERNON, OHIO.

BUTTON-DETACHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 510,197, dated December 5, 1893.

Application filed March 2, 1893. Serial No. 464,311. (No model.)

To all whom it may concern:

Be it known that I, THEODORE HOLLY SEYMOUR, a citizen of the United States, and a resident of Mount Vernon, in the county of Knox and State of Ohio, have invented certain new and useful Improvements in Machines for Detaching or Removing Buttons from Shoes; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to improvements in machines for detaching or removing buttons from shoes, and it consists in the novel construction and combination of parts hereinafter more fully described and claimed.

In the accompanying drawings: Figure 1 is a perspective view of a machine constructed in accordance with my invention. Fig. 2 is a back view of the same. Fig. 3 is a central vertical section. Fig. 4 is a front view of a modified construction.

In the said drawings, the reference numeral 1 designates a rectangular receptacle forming the base of the machine. This is preferably made of cast metal and is formed with an upwardly projecting plate or extension 2, formed with a segmental or crescent-shaped slot 3. Each end of this extension is curved or turned forwardly as seen in Figs. 1 and 3, and is formed with a recess 4, which intersects with the ends of the slot, the object of this construction being to facilitate the application of the shoe to the machine, as will be hereinafter explained. Upon its front face the extension is provided with two crescent-shaped bridges 5, corresponding with the slot and secured to the extension at each end of said slot over which bridges the heads of the buttons ride. The inner sides of these bridges are recessed, forming ways 6 for the cutter. At the upper central portion of the extension, is pivoted a pendulous arm 7, provided at its lower end with an operating handle 8, and at this end is also provided with a cutter 9, preferably consisting of a rotatable disk, journaled on the inner end of the handle 8. The extension is formed with studs 10 at each side to limit the

movement of the arm. The ends of the bridges 5 are beveled, so that the buttons will readily ride over the same when the shoe is being applied to the machine. The bridges at their centers are also provided with a strengthening lug 12.

The operation is as follows: The lowermost button on the shoe is placed in the recess in the end of the extension and there the shoe is moved toward the opposite end of the machine so that the shanks of all the buttons will be successively introduced into the space between the bridges 5, the heads of the buttons resting against the front of the bridges as seen in Fig. 1. By now manipulating the pendulous arm, the cutter will travel in the ways formed by the recesses in said bridges and successively sever the fastening threads of each button. The buttons as they are detached will fall into the receptacle 1. By curving or rounding the ends of the extension, the buttons can readily be inserted in the recesses 4, as the shoe will not come in contact with said curved ends. It will be noticed that the front edges of these recesses are beveled for the purpose of facilitating the entrance of the buttons. From the above it will be seen that the buttons can be detached from the shoes in a very rapid and efficient manner, thus effecting a great saving in time and labor over the ordinary devices employed for such purpose.

In some instances I find it desirable to use a stationary cutter as shown in the modification in Fig. 2. In this case the cutter, which may be of any suitable form is stationary, the pendulous arm being dispensed with, and the buttons are detached during the movement of the shoe, when the fastening threads come in contact with the cutter.

The device may be made of cast or malleable iron, steel, brass or any other suitable material.

Having thus described my invention, what I claim is—

1. In a button detaching machine, the combination with the plate having a segmental or crescent-shaped slot, and the correspondingly shaped bridges secured at each end to said plate forming spaces therebetween of a cutter located in said spaces between the

bridges and the face of the plate, substantially as described.

2. In a button detaching machine, the combination with the plate having a segmental
5 or crescent-shaped slot and the correspondingly shaped bridges secured at each end to said plate, of the pendulous arm with a handle and a cutter, substantially as described.

3. In a button detaching machine, the combination with the plate having its ends bent
10 or curved forwardly and formed with recesses and a segmental or crescent-shaped slot intersecting said recesses, of the curved bridges and the cutter, substantially as described.

15 4. In a button detaching machine, the combination with the base, the extension or plate,

having its ends curved forwardly and formed with recesses beveled on the front edges, and the crescent-shaped slot intersecting said recesses, of the curved bars recessed on their
20 inner sides forming bridges and having their ends beveled, and secured to said plate or extension, and a cutter substantially as described.

In testimony that I claim the foregoing as
25 my own I have hereunto affixed my signature in presence of two witnesses.

THEODORE HOLLY SEYMOUR.

Witnesses:

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