

E. A. STIGGINS.  
CUTTING DEVICE.  
APPLICATION FILED AUG. 14, 1909.

1,027,510.

Patented May 28, 1912.

Fig. 1.

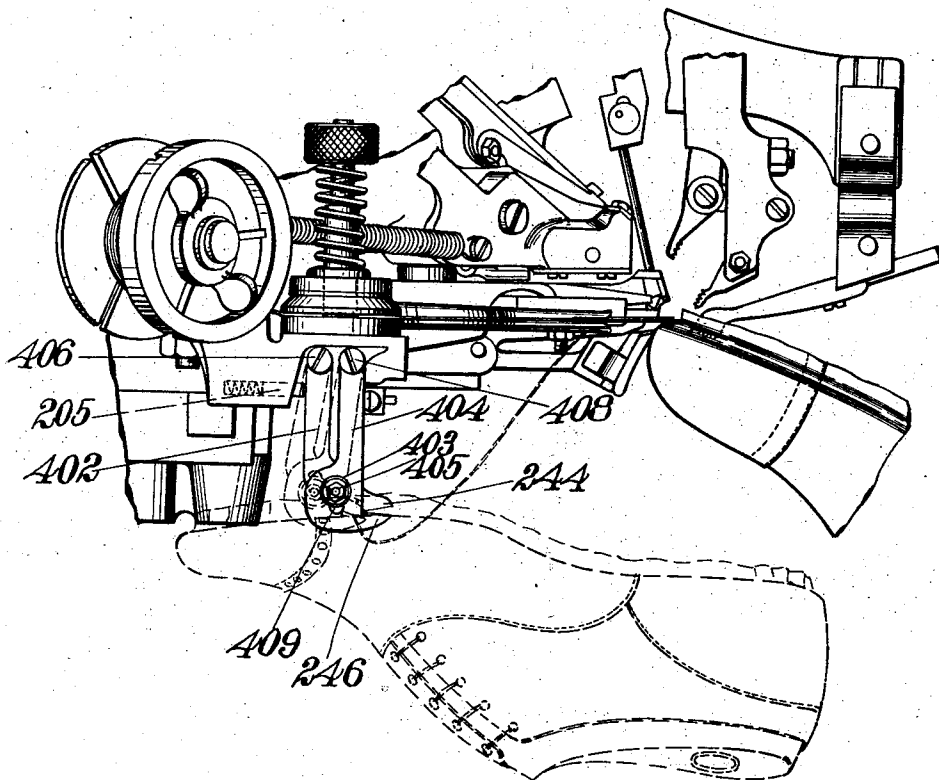
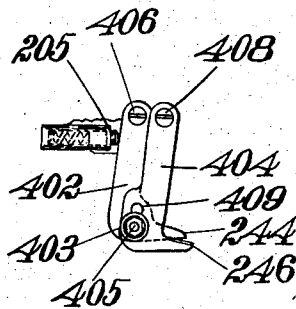


Fig. 2.

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# UNITED STATES PATENT OFFICE.

EDWARD A. STIGGINS, OF BEVERLY, MASSACHUSETTS, ASSIGNOR TO UNITED SHOE MACHINERY COMPANY, OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

## CUTTING DEVICE.

1,027,510.

Specification of Letters Patent.

Patented May 28, 1912.

Original application filed March 21, 1901, Serial No. 52,231. Divided and this application filed August 14, 1909. Serial No. 512,901.

*To all whom it may concern:*

Be it known that I, EDWARD A. STIGGINS, a citizen of the United States, residing at Beverly, in the county of Essex and State of Massachusetts, have invented certain Improvements in Cutting Devices, of which the following description, in connection with the accompanying drawings, is a specification, like reference characters on the drawings indicating like parts in the several figures.

This machine relates to devices for cutting strands of wire, cord, or similar materials, and more specifically considered the invention has reference to certain devices of this character which are especially useful in connection with lasting machines to sever the wire or cord used in binding in the upper and lining materials about the toe portion of a boot or shoe.

The invention is herein shown and described in connection with certain parts of the hand method lasting machine which forms the subject-matter of my co-pending application Serial Number 52,231, filed March 21, 1901, of which the present application is a division; it is to be understood, however, that the present invention is not limited to use with such machine, but may be employed in any relation where it will be found of value in severing strands of wire, cord, or any other material.

A prominent feature of the invention comprises, in a device of the character referred to, a pair of movably supported members provided with cooperating cutting blades, said members being so supported and confined for cutting movements relatively to each other as to stand normally with their blades in open or receiving position, but being caused to close upon a strand of wire, or other material and sever it as such strand is pressed between them. Preferably in connection with such arrangement I employ suitable means for returning the members to open or receiving position when the strand of wire or other material has been severed. In the best form of the invention now known to me the members are

in the form of bars, or the like, having at 50 their lower extremities angularly extending shear blades, said members being supported at their upper extremities from independent pivots which are eccentrically disposed to each other, and one of said members having 55 a laterally projecting pin and the other member an elongated slot within which the pin plays, a yielding pin or bolt being arranged to engage one of the members in order to maintain the blades with their cutting edges in open position. 60

Other features of the invention, including improved details of construction and combinations of parts, will be hereinafter more particularly described and claimed. 65

Referring to the drawings:—Figure 1 represents, in side elevation, a device embodying the present invention in its preferred form. Fig. 2 represents, in side elevation, the head of the lasting machine 70 shown and described in my prior application above referred to, together with my present invention, said view showing by full lines a shoe in position to receive the binding wire, and by dotted lines a shoe in the position which it occupies when the binding wire is being pressed between the blades of the cutter for severing it. 75

In the form of the invention illustrated in the drawings, the cutters comprise a member, 402, having an angularly extending shear blade, 244, which member may be supported pivotally by a pin, 406, or the like, extending from the frame of the lasting machine, or other support, and a member, 404, 85 having an angularly extending shear blade, 246, and pivotally supported by a pin, 408, located in front of the pin 406 and also extending from said frame. The member 404 is provided with an elevated slot, 409, and 90 the member 402 carries a pin or bolt, 405, which is arranged in such slot. The end of this pin or bolt is preferably provided with a thread to engage an internal thread in a nut, 403, which is adapted to clamp the two 95 members of the cutter together so as to permit them to slide, one upon the other, as they turn upon their pivotal supports, 406

and 408. As these supports are located eccentrically with reference to each other, when the members turn thereon the bolt 405 will move along the slot 409 and hold the members together in such a manner as to cause the cutting edges of the blades to move reversely with relation to each other so as to close together with a shearing action.

10 A spring-pressed plunger, 205, or similar yielding device, plays in an opening provided therefor in the machine frame, or similar support, and its outer extremity engages one of the cutter members and holds the members in normal or open position, as shown in Fig. 1, and in full lines in Fig. 2.

In operation, if the cutters are to be used to sever the end of a binding wire around the fore part of a lasted shoe, when such wire has been laid in position the workman shifts the shoe from the position shown in full lines to that shown in dotted lines, Fig. 2, introduces the wire to be cut between the cutting edges 244, 246, and applies thereto a slight force which causes the members to swing backwardly and drives the cutting edges through the wire, whereupon the members will be reversely moved to their normal position by the spring-pressed plunger 205.

While I have shown and described my invention in its preferred form, it will be obvious that the invention is not limited to the details of construction set forth herein, but only to the extent that the same is defined in the claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:—

40 1. A device of the class described comprising two movably supported members provided with cooperating cutting blades, and means for connecting the members with each other, said members being so supported and confined for cutting movements as to stand normally with their blades in open or receiving position but being caused to close upon a strand of material and sever it by force derived from the pressure of such strand against the blades.

2. A device of the class described comprising two movably supported members provided with cooperating cutting blades, and means for connecting the members with each other, said members being so supported and confined for cutting movements as to stand normally with their blades in open or receiving position but being caused to close upon a strand of material and sever it by force derived from the pressure of such strand against the blades, and yielding means to maintain said blades in open position.

3. In a wire cutter, the combination with two members provided with cooperating

shear blades, pivotal supports for the members each of which is independent of the other support and of the cooperating shear blade, said supports having a fixed relation to each other and so located as to permit bodily as well as angular movement of said members to cause the blades to close with a shearing action, and yielding means acting to hold said blades open.

4. A wire cutter, comprising two members supported independently of each other upon eccentrically located pivots and provided with cooperating shear blades, said members being normally sustained in a substantially vertical position from a fixed support, and yielding means acting on the members to maintain the blades in open relation.

5. A wire cutter comprising two freely movable vertically arranged members provided with shear blades, pivotal means for independently sustaining said members from a fixed support, and yielding means arranged to act upon said members in a direction transverse thereto to maintain the blades in open relation.

6. A wire cutter comprising crossed shear blades arranged one above the other and having bars extending perpendicularly to the cutting edges and suspended from separate pivots which are arranged to cause the blades to move in opposite directions in closing upon a wire pressed backwardly between them, and means to maintain the blades in normal wire receiving position.

7. In a wire cutter, two pivotally suspended bars having laterally extended diverging shear blades standing normally one above the other in wire receiving relation, and separate pivots for said bars so arranged relatively that the lower blade is caused to rise and the upper one to descend by backward movement of the blades about the pivots on which the bars are suspended.

8. In a wire cutter, two pivotally suspended bars having laterally extended blades standing normally one above the other, a pivot for the bar carrying the lower blade, a second pivot in the rear thereof for the other bar, and means for holding the bars normally in such relation that backward pressure of the wire between the blades will cause the lower blade to rise and the upper blade to descend for cutting the wire.

9. A wire cutter comprising two members movable about adjacent pivots which are arranged to cause a bodily movement of said members toward each other in addition to mere pivotal closing movement, and a pin and slot connection between said members to permit and guide their bodily movement.

10. A wire cutter comprising two members having parallel shanks pivoted one in front of the other and overlapping shear blades projecting forwardly from the

shanks, a pin and slot connection between  
said blades having the slot substantially  
perpendicular to the cutting edges, and a  
spring for holding both blades rocked for-  
wardly to the limit of the movement permit-  
ted by the pin and slot.

In testimony whereof I have signed my

name to this specification in the presence of  
two subscribing witnesses.

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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."