

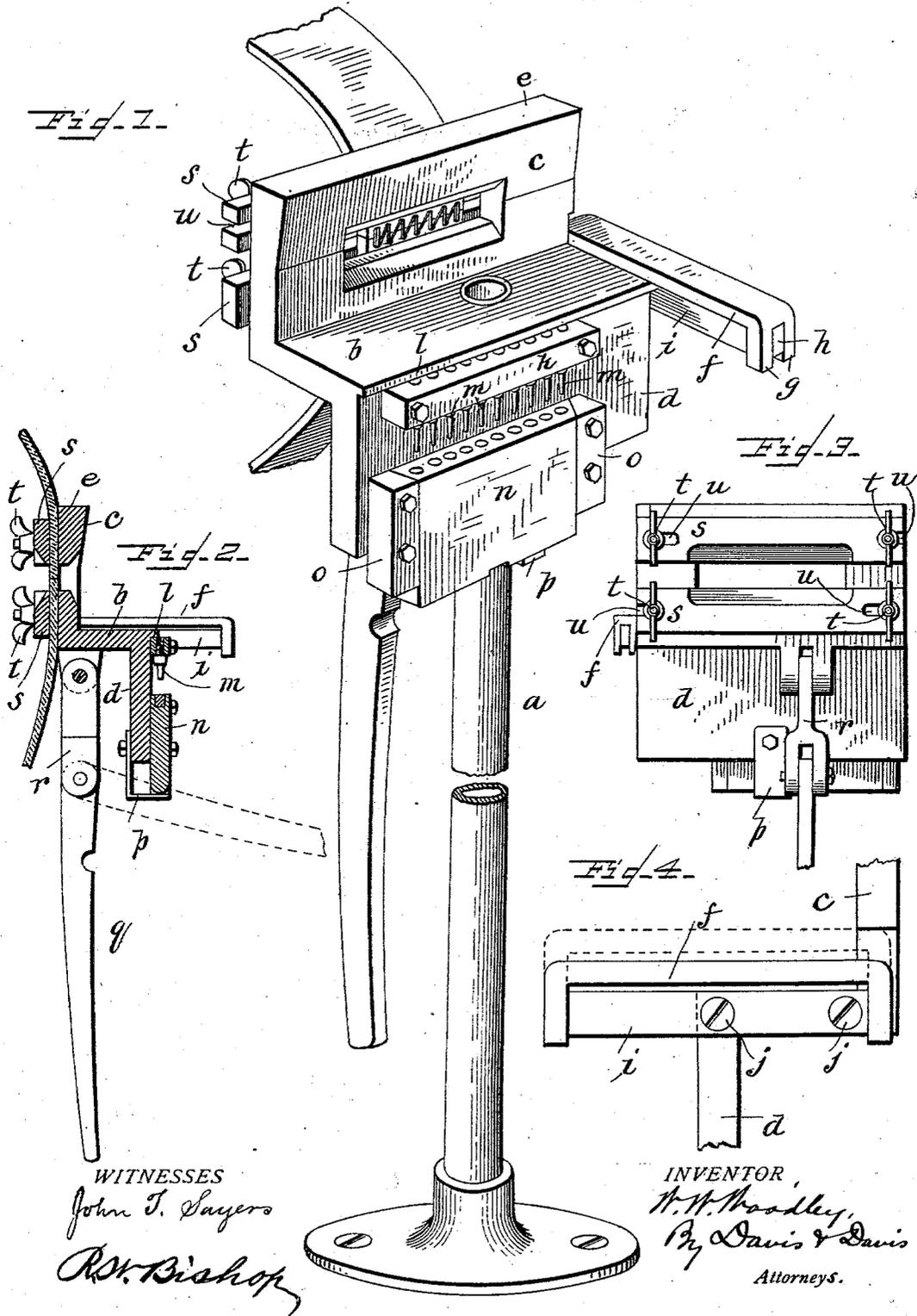
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PATENTED APR. 19, 1904.

W. W. WOODLEY.
IMPLEMENT FOR FASTENING BELTS.

APPLICATION FILED APR. 25, 1903.

NO MODEL.



WITNESSES
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IMPLEMENT FOR FASTENING BELTS.

SPECIFICATION forming part of Letters Patent No. 757,589, dated April 19, 1904.

Application filed April 25, 1903. Serial No. 154,217. (No model.)

To all whom it may concern:

Be it known that I, WHITFORD W. WOODLEY, a citizen of the United States of America, and a resident of Elizabeth City, county of Pasquotank, State of North Carolina, have invented certain new and useful Improvements in Implements for Fastening Belts, of which the following is a full, clear, and exact description, reference being had therein to the accompanying drawings, in which—

Figure 1 is a perspective view of my implement, showing the two parts of a belt in the clamp with the fastening-wire inserted; Fig. 2, a vertical transverse section of the apparatus; Fig. 3, a back view thereof, and Fig. 4 a partial end view showing the square or straight-edge at the right-hand end of the apparatus.

The object of this invention is to provide a simple implement for use in fastening machine-belts; and it consists of certain novel features of construction hereinafter described and claimed.

Referring to the drawings by letters, *a* designates a standard which is adapted to be fastened to the floor in any suitable manner and which supports a horizontal rectangular table *b*. This plate or table *b* has formed integral with its rear edge an upright plate or flange *c*, which runs the full length of the rear edge of the table and which is thickened at its upper end to form an anvil whose upper face *e* is flat. This upper plate *c* is provided with a longitudinal lacing-opening, and on its rear face are mounted suitable devices for clamping the abutting ends of the belt while they are being laced.

Formed on the front edge of the plate *b* is a depending flange or plate *d*, which also runs the full length of the said plate *b* and affords a suitable support below the upper surface of the table *b* for suitable punching devices.

At the right-hand end of the table *b* and standing at right angle thereto is a straight-edge or square which is preferably composed of a bar *f*, having its ends *g* bifurcated and turned down and arranged to embrace lugs *h*, projecting from the respective ends of a bar *i*, fastened to the end of the table *b* by screws *j*. By this means the bar *f* is gravi-

tatingly supported on the bar *i*, being guided truly vertically by the lugs *h* and the shoulders they form with the main part of the bar *i*. These bars *f* and *i* are longer than the table *b* is wide, and they are so adjusted that they stand exactly at right angles to the plate *c*, so as to form therewith a square.

The punching devices consist of a bar *k*, bolted to the face of plate *d*, just under an overhanging flange *l*, formed on the front edge of the table *b*. This bar *k* carries a series of depending punches *m*, and arranged to work in conjunction with these punches is a suitable pressure-plate or slide *n*, mounted slidingly upon the face of the plate *d* just below the punches. I prefer to secure this plate *n* to the plate *d* by means of blocks *o*, bolted to the face of plate *d* and inclined on their inner edges to overlap the correspondingly-inclined edges of plate *n*. This plate *n* is limited in its downward motion by means of a bracket *p*, attached to the lower end of the dependent plate *d*.

To raise plate *n* toward the punches, I employ a lever *q*, which is pivotally connected by means of a link *r* to a pair of depending ears on the under side of the table-plate *b* back of flange *d*. By this manner of hanging the lever *q* it will swing down vertically under the table and be out of the way, while at the same time it may be readily swung forward and upward to lift the pressure-plate *n*.

The clamping means consists, preferably, of a pair of bars *s*, clamped removably to the rear face of the flange *c* by means of thumb-screws *t*, which work through longitudinal slots *u* in the bars and support the bars in parallel relation to each other and to the lacing-opening in the flange *c*. One of the slots of each of the bars is cut through to the end of the bar, as shown, whereby by simply loosening the clamping-screws and sliding the bars endwisely one end will be released from its set-screw and may be swung down out of the way.

In using this implement the ends of the belt to be fastened together are first held upon table *b* and slid under the straight-edge *f*, the operator lifting the straight-edge with one hand and taking care that the inner edge of

the belt bears against the face of the flange *c*. Then with a knife held in his hand he cuts the end of the belt off square by running it along the outer edge of the bar *f*. Both ends may
 5 be cut off at the same time, and it will be observed that the straight-edge of guide *f* drops gravitatingly on the belt and is held from lateral movement by engagement with lugs *h*. After the ends to be joined are thus squared
 10 they are inserted singly or together in under the punches and are punched by raising the lever until it forces the punches through. Then the punched parts of the belting are inserted in the clamp with their ends abutting
 15 hard together. When they are clamped firmly in this abutting relation, the lacing-wire may be passed back and forth through the punched holes and the wire drawn tight. After the lacing is completed the belt is removed from
 20 the clamp and the lacing-wire held upon the anvil *e* and properly hammered down to complete the fastening.

Having thus fully described my invention, what I claim, and desire to secure by Letters
 25 Patent, is—

1. In an implement of the class described the combination, of a table and a support

therefor, said table having provided along its rear edge with an upright flange or plate, and at its right-hand end with a straight-edge device lying at a right angle to said upright
 30 flange, said straight-edge device consisting of a movable member mounted and guided on the table and adapted to clamp a belt down upon the table.

2. In combination with a table-top and a support therefor, an upright flange extending along the rear edge of the table-top and forming one edge of a square, and a straight-edge
 40 device at the right-hand end of the table-top forming the other edge of the square, this straight-edge device consisting of a bar *i* secured to the edge of the table-top and provided at its ends with lugs *h*, and a vertically-movable bar or straight-edge *f* having its ends
 45 turned down and bifurcated to embrace lugs *h* for the purpose set forth.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 24th day of April, 1903.

WHITFORD W. WOODLEY.

Witnesses:

R. S. FEARING,
 M. R. GRIFFIN.