

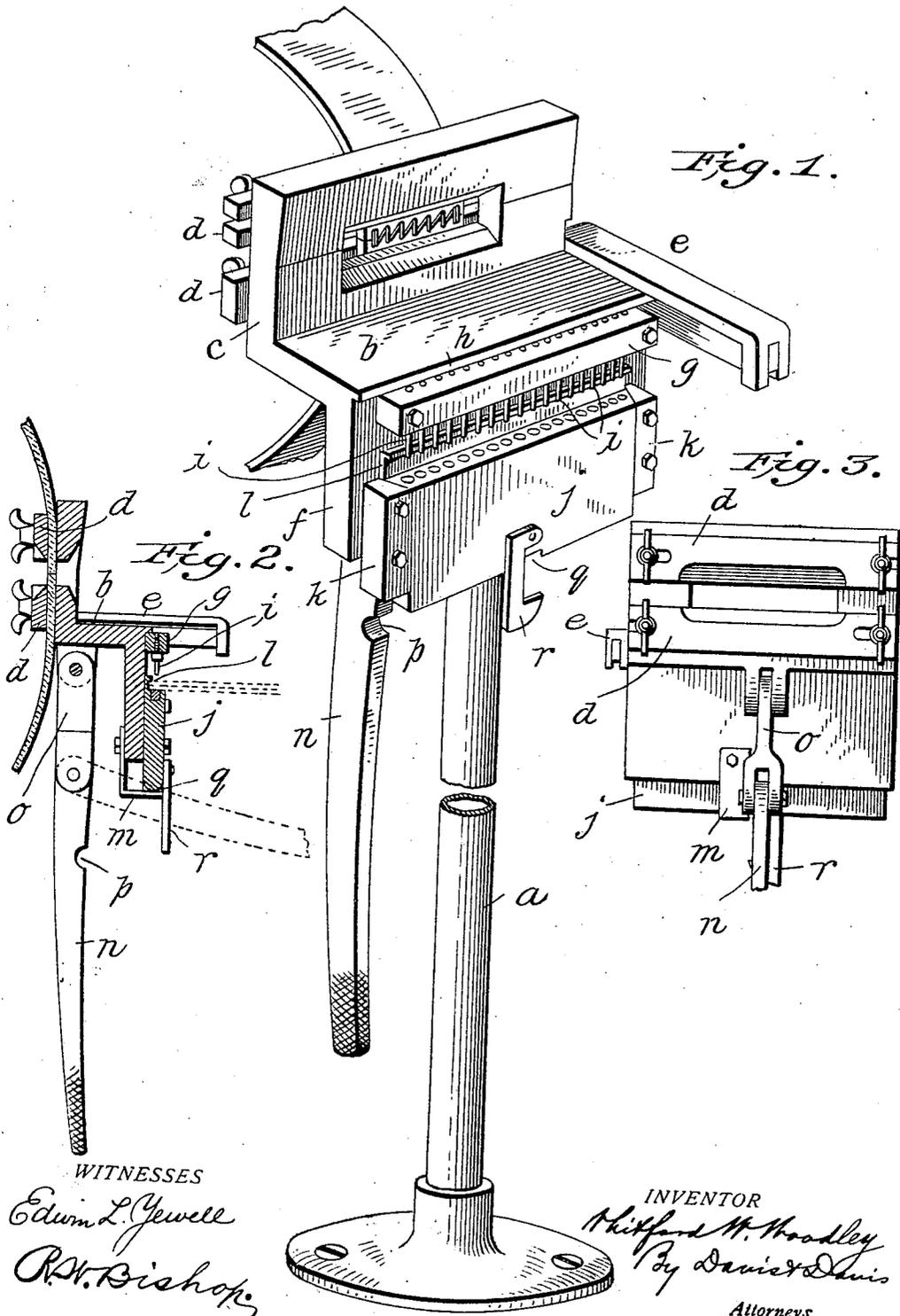
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W. W. WOODLEY.
IMPLEMENT FOR PUNCHING BELTS.

APPLICATION FILED OCT. 31, 1903.

NO MODEL.



WITNESSES
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IMPLEMENT FOR PUNCHING BELTS.

SPECIFICATION forming part of Letters Patent No. 763,137, dated June 21, 1904.

Application filed October 31, 1903. Serial No. 179,314. (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 Punching 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; Fig. 2, a vertical transverse section of the apparatus, and Fig. 3 a back view thereof.

The object of this invention is to provide a simple punching device especially adapted for use in connection with a combination implement for preparing and fastening the abutting ends of machinery-belts, said combination implement preferably embodying, in addition to the punching devices, certain means for squaring the ends of the belt which are to be abutted and fastened together, means for clamping the abutting ends of the belt while the fastening-wire is being interlaced, and an anvil for hammering down the fastening-wire after it is laced, as more fully hereinafter set forth.

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 rectangular table *b*, having formed integral with it at its rear edge an upright flange *c*, which is thickened at its upper end to form an anvil whose upper surface is flat. This flange is provided with a lacing-opening and suitable clamp-bars *d* to hold the ends of the belt while being laced, the drawing showing the clamped ends of the belt laced together and ready to be removed. At the right-hand end of the table is arranged a suitable straight-edge *e*, which is employed to square the ends of the belt that are to be fastened together. Formed on the front edge of the table is a depending flange or plate *f*, which runs the full length of the table and affords a suitable support below the upper surface thereof for the punching devices.

The punching devices consist, preferably, of a bar *g*, bolted to the face of the plate *f* just under an overhanging flange *h*, formed on

the front edge of the table, said bar carrying a series of depending punches *i*. Mounted on the face of the plate just below the punches is a suitable pressure plate or slide *j*, which is slidingly attached to the face of the plate by vertical bars *k*, bolted to the face of the plate near each end thereof and beveled along their inner edges. Formed on this pressure-plate at the inner corner of its upper edge or face is an upright flange *l*, which extends along the upper edge of the plate and is formed hooked-shaped at its upper edge. This hooked-shaped upright flange lies in a vertical plane back of the punches *i* and is adapted to pass up behind the same when the pressure-plate is raised. The pressure-plate is limited in its downward movement by a hook *m*, attached to the depending plate *f*. To raise the pressure-plate against the punches, I employ a lever *n*, which is pivotally connected, by means of a link *o*, to a pair of depending ears on the under side of the table back of the plate *f*, a suitable notch *p* being formed in the outer edge of the lever to adapt the lever for engagement with a similar notch *q*, formed midway the ends of the lower edge of the pressure-plate *j*. By means of this arrangement the pressure-plate may be forced against the punches with considerable power, while the lever will swing down when released vertically under the table, where it will be entirely out of the way.

In using this combination implement the ends of the belt to be fastened together are first squared by means of the straight-edge and a suitable knife held in the hand of the operator. Then they are inserted singly or together in under the punches and are punched by raising the lever until it forces the punches through the belt. The upstanding hooked flange *l* serves as a straight-edge or abutment, against which the ends of the belt are held while being punched. When the lever is raised to perform the punching operation, it automatically engages a depending hook *r*, which swings from the front face of the pressure-plate, by means of which the operator may force the pressure-plate downward, so as to strip the belt from the punches through the medium of the hooked flange *l*, whose upper

outward-projecting edge engages over the inner ends of the belt, as shown in dotted lines in Fig. 2. After the belt is thus punched it is placed in the clamp and suitably laced
5 with wire, after which it is removed from the clamp and the wire lacing is hammered down on the anvil *c*.

Having thus described my invention, what I claim, and desire to secure by Letters Pat-
10 ent, is—

1. In combination, a supporting-plate, a series of punches supported thereon, a pressure-plate slidingly supported below the punches, and carrying a device extending up
15 behind the punches to engage over the inner end of the belt end to be punched, and means for forcing the pressure-plate upward and downward.

2. In combination, a table-top and a sup-
20 porting-plate depending therefrom, a series of punches carried by said plate, a sliding pressure-plate below the punches, a depending

link, pivotally hung back of the supporting-plate, and an operating-lever pivotally hung to the lower end of said link, for the purpose
25 set forth.

3. In combination, a support carrying a series of punches, a vertical sliding plate below the punches and provided with means for engaging over the belt end to be punched,
30 a depending hook carried by the pressure-plate, and an operating-lever pivotally swung behind the pressure-plate and adapted to be engaged by said hook when the pressure-plate is raised through the instrumentality of
35 the lever.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 30th day of October, 1903.

WHITFORD W. WOODLEY.

Witnesses:

CHAS. GUIOKIN,
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