June 28, 1927. 1,634,226

E. ALIBERT

NAIL BOX FOR NAILING MACHINES

Filed Dec. 12, 1925

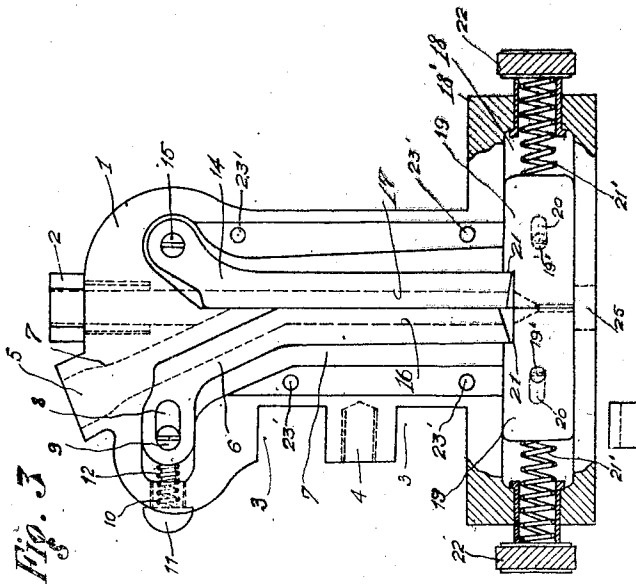


Fig. 3

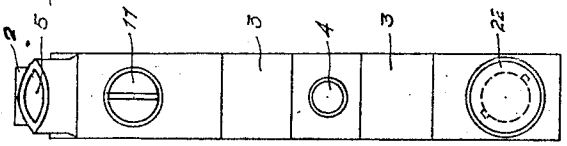


Fig. 2

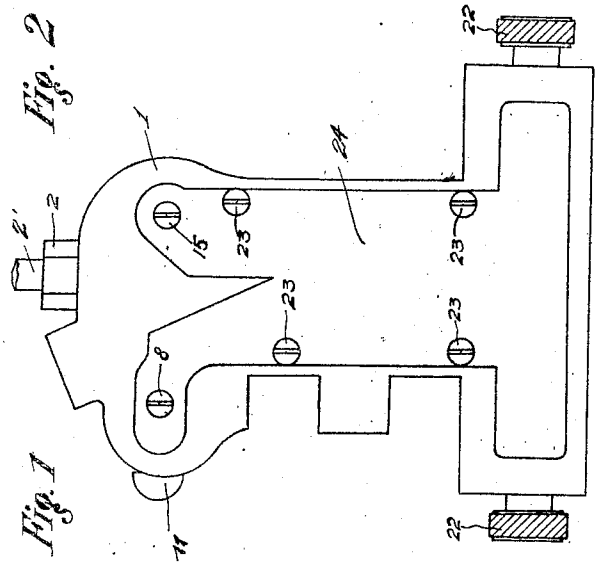


Fig. 1

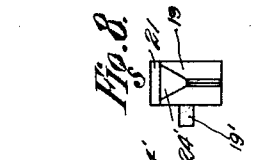


Fig. 8

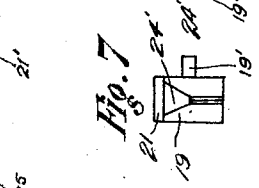


Fig. 7

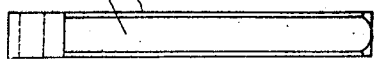


Fig. 6

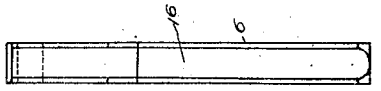


Fig. 5

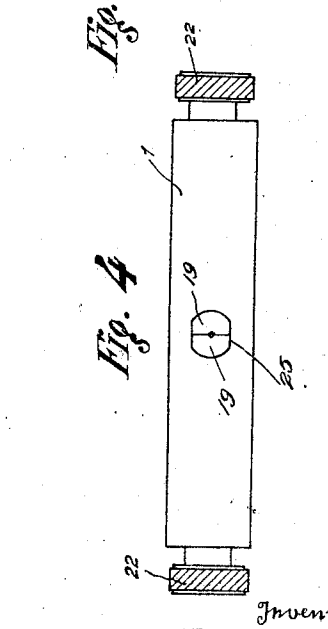


Fig. 4

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UNITED STATES PATENT OFFICE.

EMILE ALIBERT, OF PARIS, FRANCE.

NAIL BOX FOR NAILING MACHINES.

Application filed December 12, 1925, Serial No. 75,090, and in France December 12, 1924.

The present invention relates to an improved nail box for nailing machines.

The special features of the said invention consist in the means employed for guiding the nails; in the means for obviating all gripping; and in the improved construction of the apparatus whereby its rigidity will be assured and its practical operation will be afforded.

In the appended drawings:

Fig. 1 is an elevation view of the apparatus (in full size) viewed from the right hand side, showing its closing plate.

Fig. 2 is an analogous front view.

Fig. 3 is a corresponding view from the right hand side, with the closing plate removed, thus showing the internal elements.

Fig. 4 is a bottom plan view of the apparatus.

Fig. 5 is an internal view of the left hand guide for the nails which is so mounted as to have straight line movement.

Fig. 6 is an internal view of the right hand jaw-guide which is pivoted on its supporting axle.

Fig. 7 is a like view of the left-hand die.

Fig. 8 is an interior view of the right hand die. The box comprises a metallic body 1 having a guide 2 upon its upper end, and in which the driving plunger 2′ operates. The body is provided with recesses 3 and a tapped boss 4, and it is through the medium of these elements that the body is supported upon the machine. An inclined feed passage 5 is formed in the body 1 for the passage of nails, and it is through this passage that the nails are introduced to be driven by the plunger 2′.

The nail guiding bar 6 is mounted in the recess 7 formed in one face of the body 1, said bar having its upper end provided with a slot 8 slidably engaged upon the bolt 9 carried by said body, said bar being urged inwardly by a coil spring 10 associated with a plunger 11, there being a stud 12 which guides said spring. A second guide bar 14 is pivotally mounted in the recess upon the stud 15, the bars 6 and 14 having their opposed faces provided with longitudinal grooves 16 and 17, respectively, which when confronting provide a passage for the nails fed thereto through the passage 5.

Slidable in the recess 18 formed in the elongated base 18′ of the body are opposed dies 19, retained and guided by cross pins 19′ slidable in the slots 20 formed in said dies, as clearly shown in Figure 3 of the drawing. The inner or abutting ends of the dies 19 are provided with shoulders 21 and with which the lower ends of the respective bars 6 and 14 engage for interlocking engagement. To yieldably hold the dies 19 in contacting relation springs 21′ are provided and are retained in place by the caps 22.

Cap screws 23 are provided and engage the threaded openings 23′ formed in the body and serve to retain the cover plate 24 in position to close the recess 7. The adjacent ends of the dies are provided with beveled faces 24′, which serve to guide the nails as they are successively acted upon by the driving plunger 2′. It will be obvious that as the nails are fed between the bars 6 and 14, the former will slide while the latter will swing in order that nails of various sizes can be driven. It will be of course understood that upon movement of the bars the dies will be slid outwardly due to the interlocking connection between the lower ends of said bars and the shoulders 21 of the dies. The plunger 2′ has movement sufficient to follow a nail as it is driven through the opening 25 in the base 18′.

I claim:

1. A nail box for nailing machines, comprising a body having a recess in one face thereof, a pair of laterally movable nail guiding bars mounted in the recess, said body having a passage therein for feeding nails between the bars, nail engaging dies slidably and yieldably associated with the body for engaging the nails to hold the same in driving position, said dies being interlocked and movable with the bars.

2. A nail box for nailing machines, comprising a body, a pair of nail engaging bars mounted therein, one bar having a straight line movement and the other a pivotal movement, said body having an inclined nail feeding passage for feeding nails between

the bars, a nail driving plunger slidable between the bars, said plunger being adapted to successively engage nails introduced between the bars through said passage, a pair of nail engaging dies slidable below said bars and having beveled faces coinciding with the path of movement of the plunger, and springs carried by the body and engaged with the dies for normally urging said dies towards each other.

Signed at Paris, in the Department of Seine, France, this twenty-seventh day of November, 1925.

EMILE ALIBERT.