O. S. STURTEVANT.

STAPLE FEEDING MECHANISM.

APPLICATION FILED MAY 16, 1910.

987,024. Patented Mar. 14, 1911.

Fig. 1

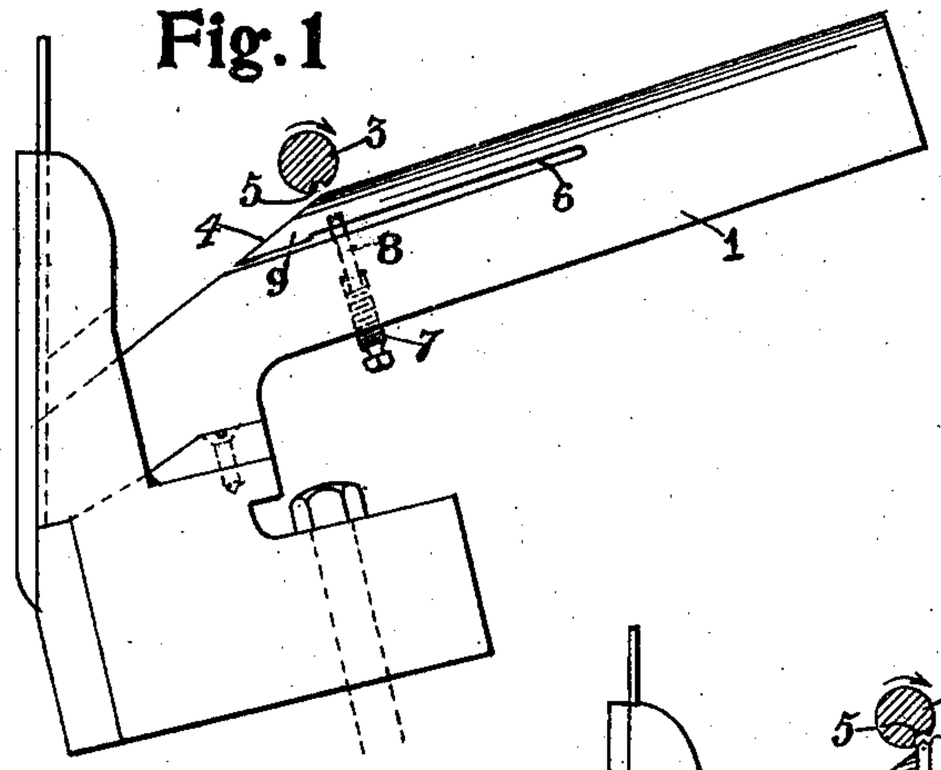


Fig. 2

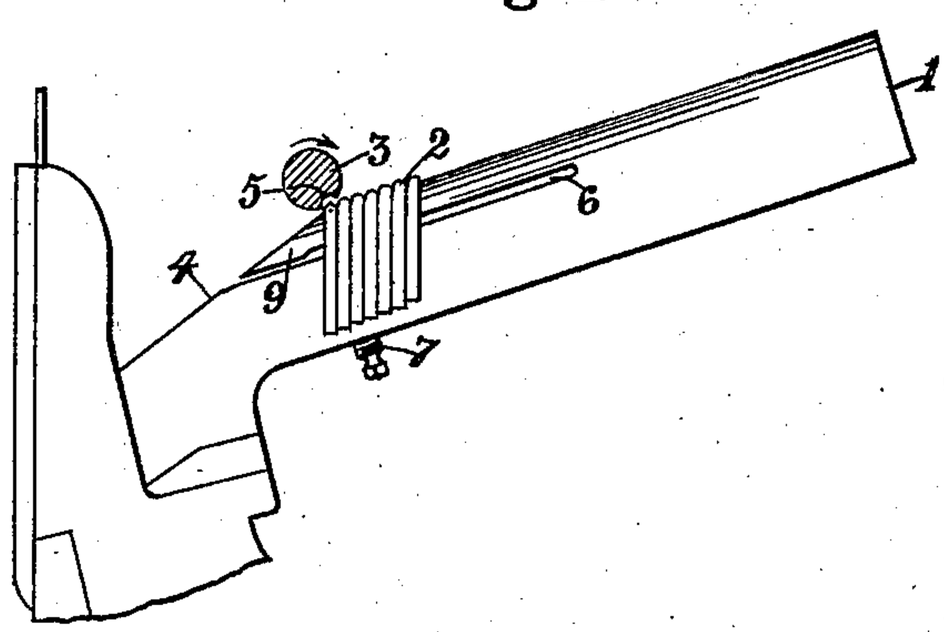


Fig. 3

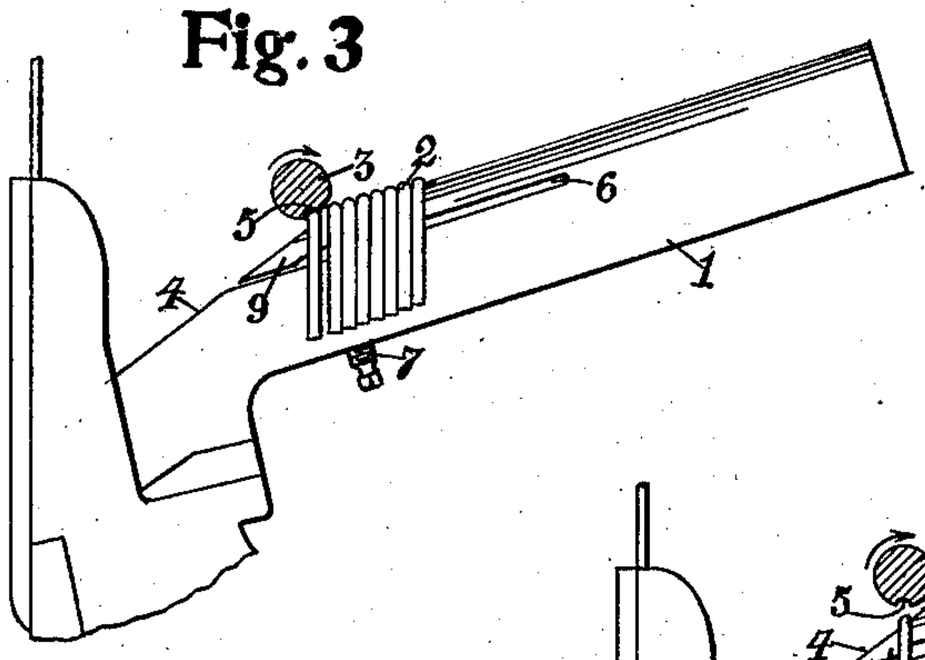
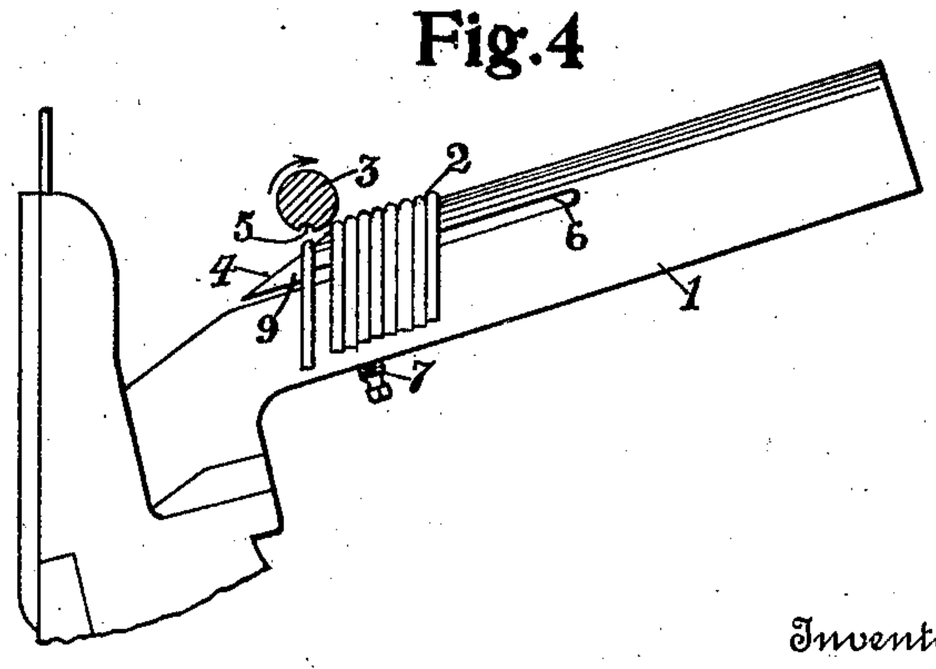


Fig. 4



Witnesses
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UNITED STATES PATENT OFFICE.

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STAPLE-FEEDING MECHANISM.

987,024. Specification of Letters Patent. Patented Mar. 14, 1911.

Application filed May 16, 1910. Serial No. 561,705.

To all whom it may concern:

Be it known that I, ORANGE S. STURTEVANT, a citizen of the United States, residing in Adrian, in the county of Lenawee and State of Michigan, have invented certain new and useful Improvements in Staple-Feeding Mechanism, of which the following is a specification.

This invention relates to a suitable feeding mechanism and more particularly to an arrangement for adjusting the same whereby it is available for wires of different gages.

The invention consists in the matters hereinafter set forth, and more particularly pointed out in the appended claims.

In the drawings, Figure 1 is a view in side elevation of a mechanism embodying features of the invention; Fig. 2 is a similar view showing the mechanism about to engage a staple; and Figs. 3 and 4 are similar views showing successive steps in the operation.

Referring to the drawings a slide bar 1 is secured to any machine to which it is desired to furnish wire staples in such position that staples indicated at 2 placed astride the bar slide against a transverse shaft 3 journaled to rotate as indicated by the arrows. The margin of the bar on which the staple slides has a sharply inclined face 4 beyond the shaft 3 down which the staples move rapidly by gravity. The shaft 3 has a longitudinal key way or groove 5 which is adapted to hook over the top of a single staple on the bar adjacent the shaft and push it forward on to the inclined face 4.

In order to allow the groove in the shaft to catch staples of different gages, it is necessary to vary the distance between the face of the slide bar and the shaft. Accordingly a slot 6 is formed preferably longitudinally in the bar on which the staple slides and a set screw 7 is screwthreaded into an aperture in the bar and abuts a block or plunger 8 which bears upwardly against the under side of a tongue 9 formed in the bar by the slot 6. Or other suitable means may be used for moving the slide toward or away from the shaft.

By this construction a staple feed is obtained which by slight adjustment is adapted for handling staples of any gage wire without danger of clogging the mechanism or injury to the staples.

What I claim as my invention is:—

1. Staple feeding mechanism comprising a staple slide bar having an inclined upper margin, a rotatable member transverse to the bar adapted to act as a stop for staples moving down the slide and to positively engage and pass staples one by one along the slide, said bar having a tongue formed by a longitudinal slot substantially parallel to the upper margin, and means for moving the said tongue toward the rotatable member.

2. Staple feeding mechanism comprising a staple slide bar having an inclined upper margin, a shaft transverse to the bar acting as a stop for staples moving down the inclined margin, and having a longitudinal slot adapted to engage a staple on the slide contacting with the shaft and move it positively along the margin, the bar having a tongue formed by a longitudinal slot substantially parallel to the upper margin, and a set-screw in the bar adapted to force the said tongue toward the shaft.

In testimony whereof I affix my signature, in presence of two witnesses.

ORANGE S. STURTEVANT.

Witnesses:
LOUIS A. KELLY,
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