

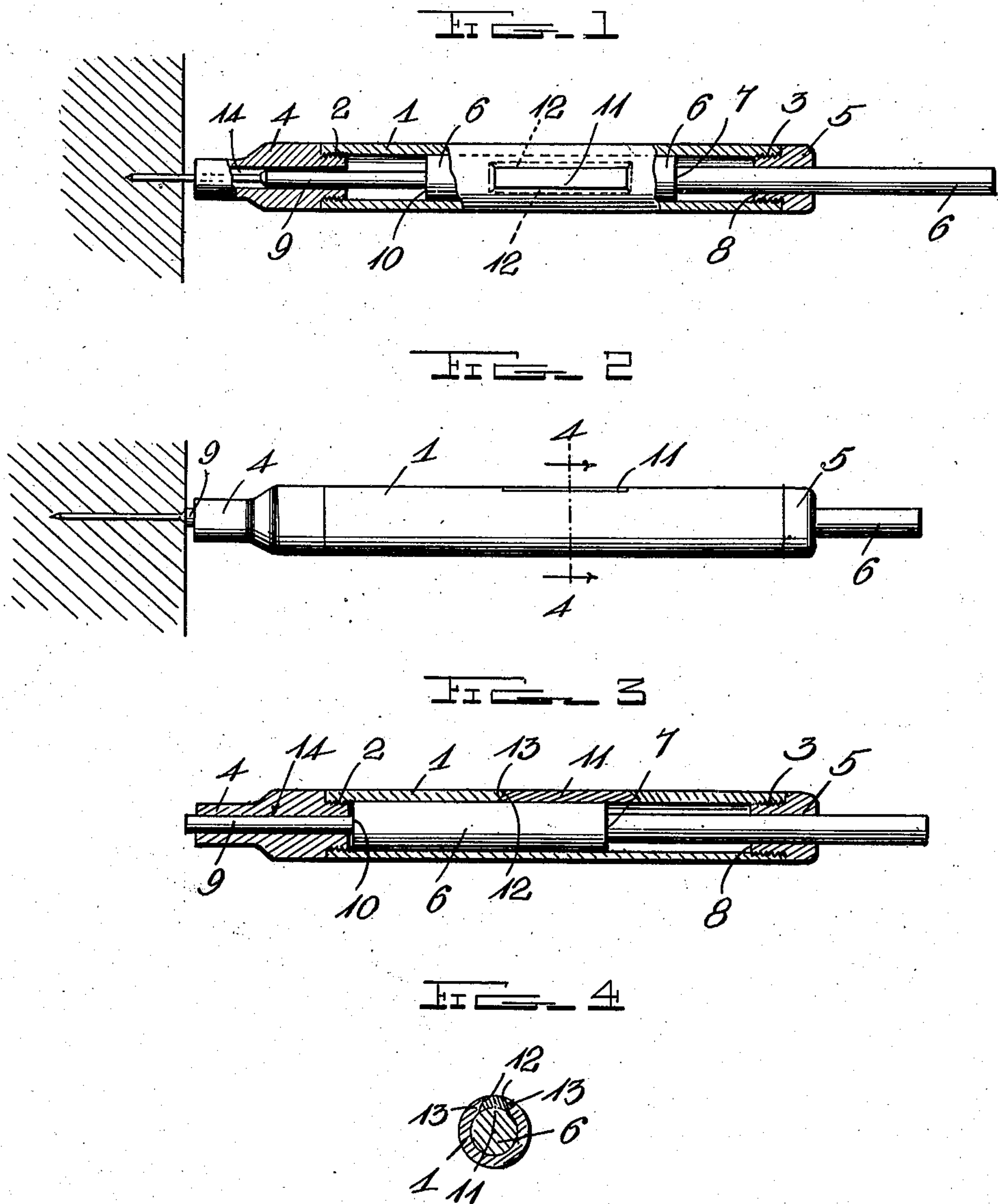
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NAIL SETTER.

APPLICATION FILED MAY 28, 1908.

924,054.

Patented June 8, 1909.



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Witnesses

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UNITED STATES PATENT OFFICE.

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NAIL-SETTER.

No. 924,054.

Specification of Letters Patent.

Patented June 8, 1909.

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To all whom it may concern:

Be it known that I, CARL A. GEHNE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Nail-Setters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to nail driving and setting devices.

The object of the invention is to provide a device of this character which may be adjusted for different size brads or nails and which may be used in an inverted position equally as well as in an upright position.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claim.

In the drawings, Figure 1 is a side elevation of the device with parts broken away, showing the nail in the act of being driven; Fig. 2 is a side elevation showing the nail completely driven; Fig. 3 is a longitudinal section of the device; and Fig. 4 is a transverse sectional view taken on the line 4—4 of Fig. 1.

Referring more especially to the drawings, 1 represents a tubular body which is internally threaded at 2 and 3 to receive the nail cap 4 and the limiting cap 5 as is shown in Fig. 3. Slidably mounted in the tubular body and extending through the limiting cap 5 is a plunger 6 having its rear end reduced so as to form a shoulder 7 adapted to engage with the shoulder 8 produced by the cap 5 entering the tube 1 so as to limit the rearward movement of the plunger. The forward part of the plunger 6 is provided with a greatly reduced operating end 9 which is adapted to engage the heads of the nails for driving and force them to their seat. In the foremost position of the plunger the driving extension 9 has its end project slightly beyond the nail cap 4. The shoulder 10 is formed by the reduction of the plunger to produce the nail driving end 9 at the inner end of the tube and limits the forward movement of the plunger.

In order to hold the plunger in striking position for setting nails in work overhead I provide a thumb piece 11 which is provided

with outwardly beveled edges 12 adapted to engage the beveled edges 13 of the tubular member 1. This construction allows free inward movement of the thumb piece 11 but prevents outward movement beyond the periphery of the tube.

In using a device for driving nails the plunger is retracted to its full extent and the brad or nail placed in the opening 14, which passes through the nail cap 4, against the end of the driving extension 9. The plunger is now forcibly forced forward as from the blow of a hammer upon its outer end, thus driving the nail into the body by one or a succession of blows, as may be required.

If the device is used for setting nails the plunger is allowed to work free in the tubular body 1 and the point of the driving extension 9 placed upon the head of the nail. The nail cap 4 is then forcibly held down upon the body in which the nail is seated. The outward end of the plunger is then forced down to the shoulder 10 or inner end of the nail cap 4, this limits the movement thereof and gives the required set to each nail. In using a device for setting nails overhead the plunger is first pushed upwardly to its limit and the thumb piece 11 forced in against the plunger so as to prevent it dropping back by gravity, the device is then used as formerly described, as for setting or driving nails.

By changing the plunger and the nail cap 4 I may provide a device which is capable of driving and setting different size brads or nails.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claim.

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

A nail driving and setting device comprising a tubular body, a channeled guiding member in one end thereof, a plunger having a driving extension longer than the guide member, said plunger slidably mounted in the tubular body with the driving extension

operating in the channeled guiding member,
and a loosely mounted plate adapted to be
manipulated by the operator to frictionally
engage the plunger to hold its extension pro-
5 jected beyond the end of the guiding member
whereby the device may be used in an in-
verted position for setting nails and the
guiding device will limit the set of the nail.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit- 10
nesses.

CARL ADOLPH GEHNE.

Witnesses:

RICHARD FREY,
JOHN MAYER.