

No. 638,642.

Patented Dec. 5, 1899.

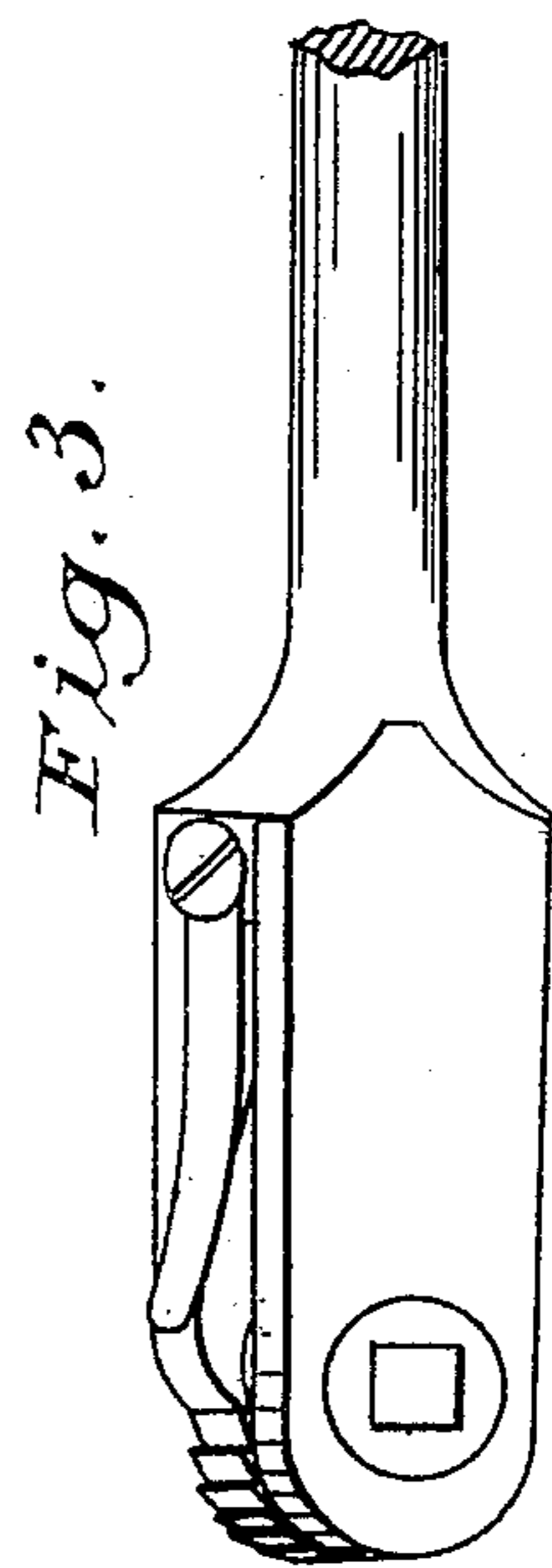
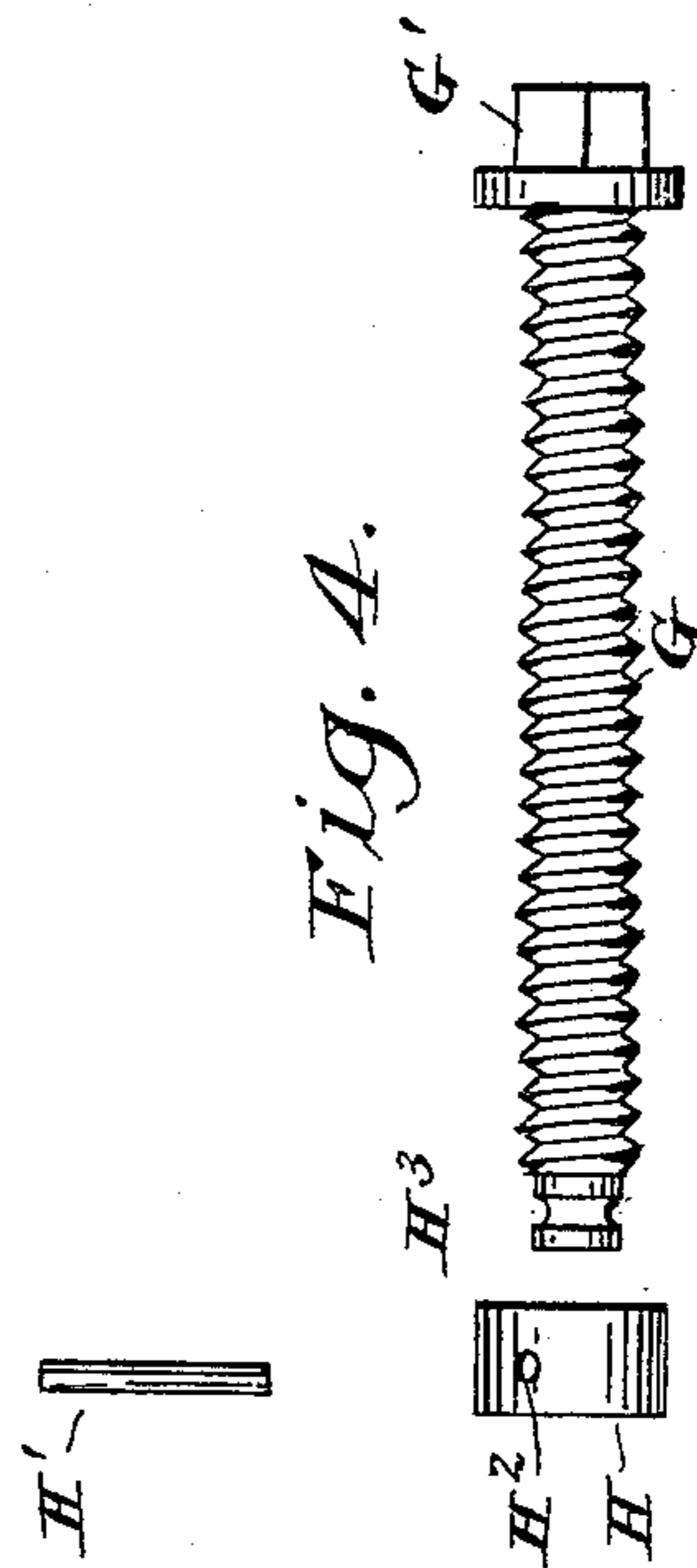
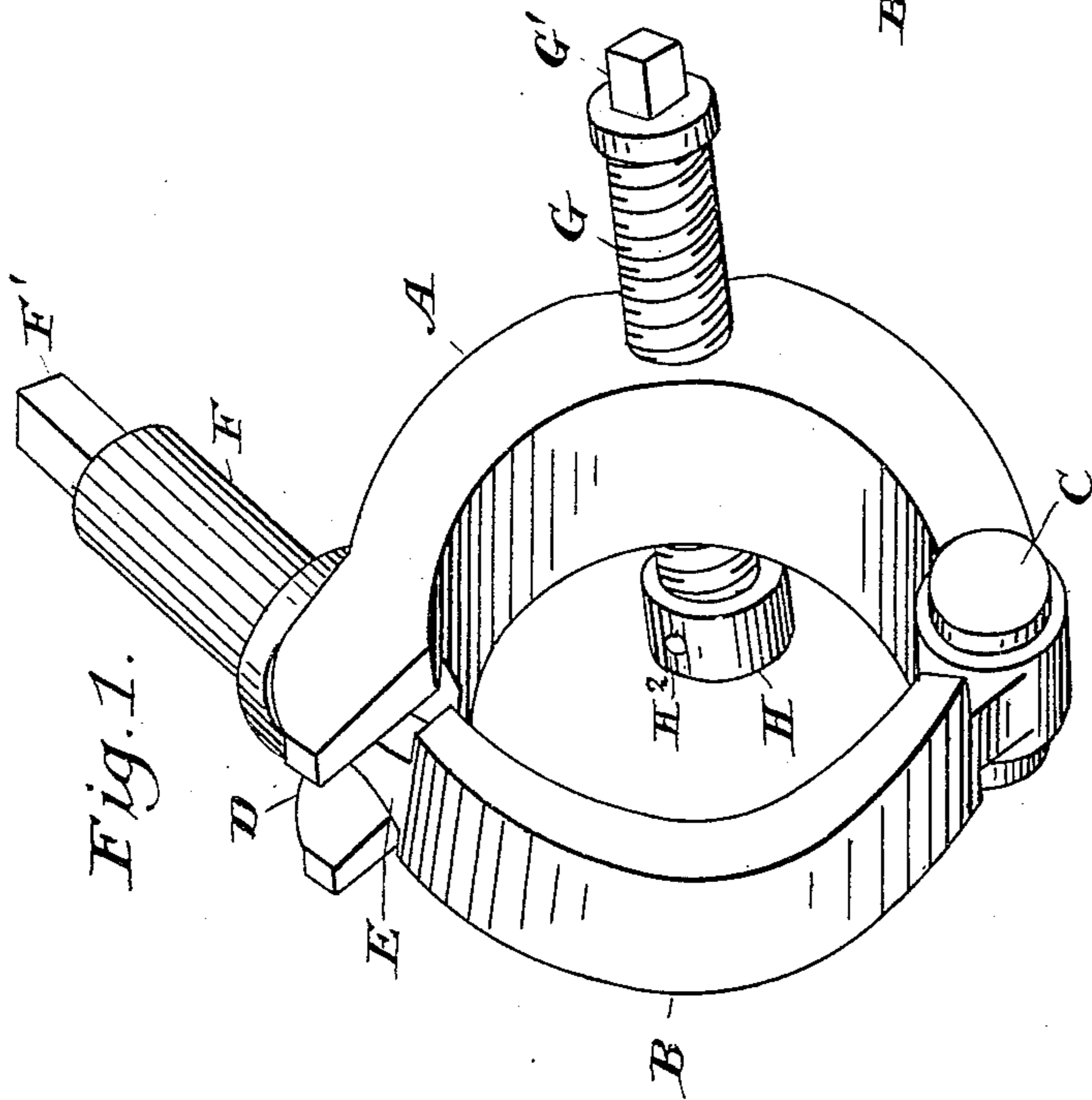
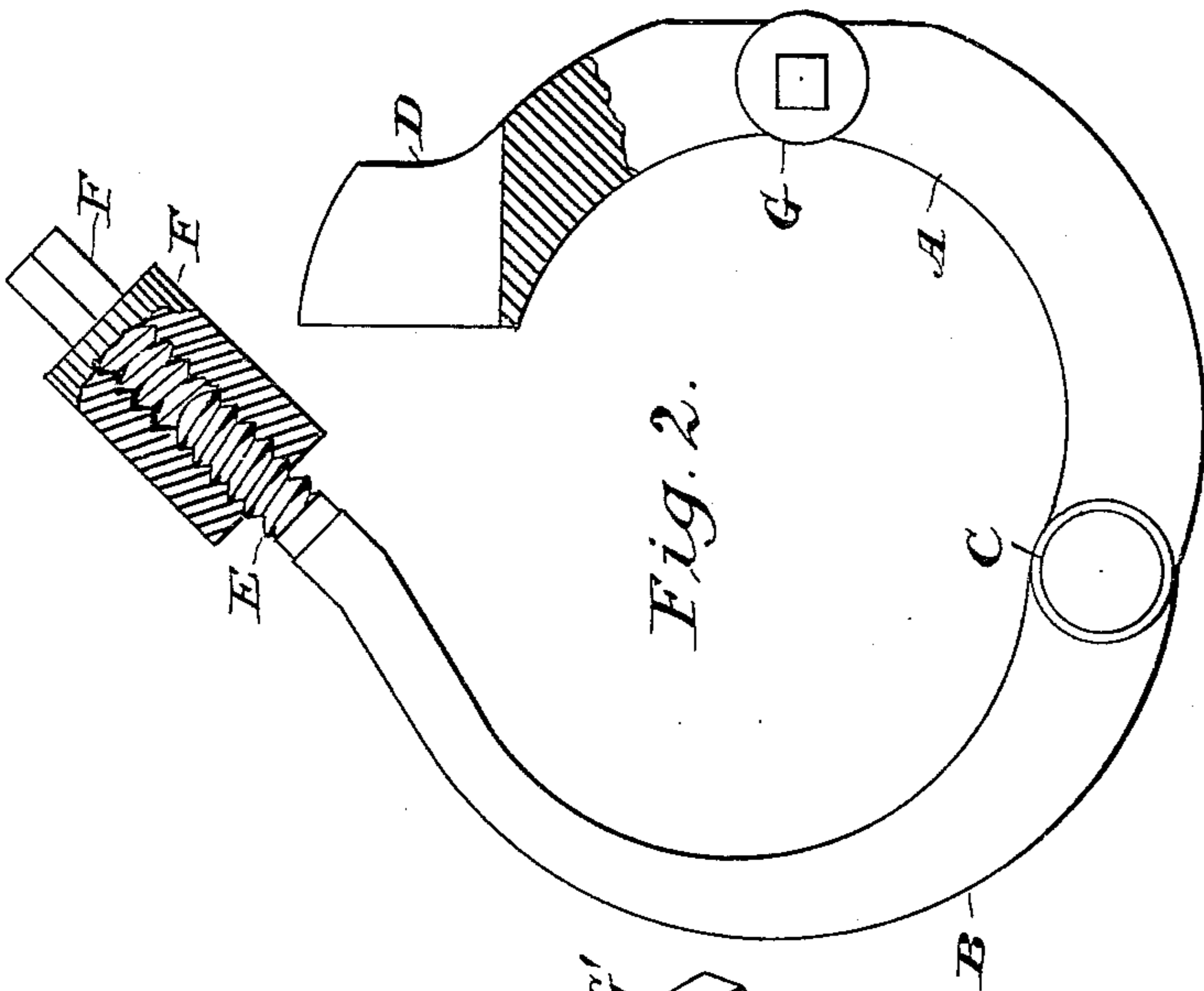
J. P. McKEOWN.

TAPPET SETTER.

(Application filed May 15, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

E. B. Bolton
Helen E. McElhorne

James Philip McKeown
BY
Richard D. [Signature]

ATTORNEYS

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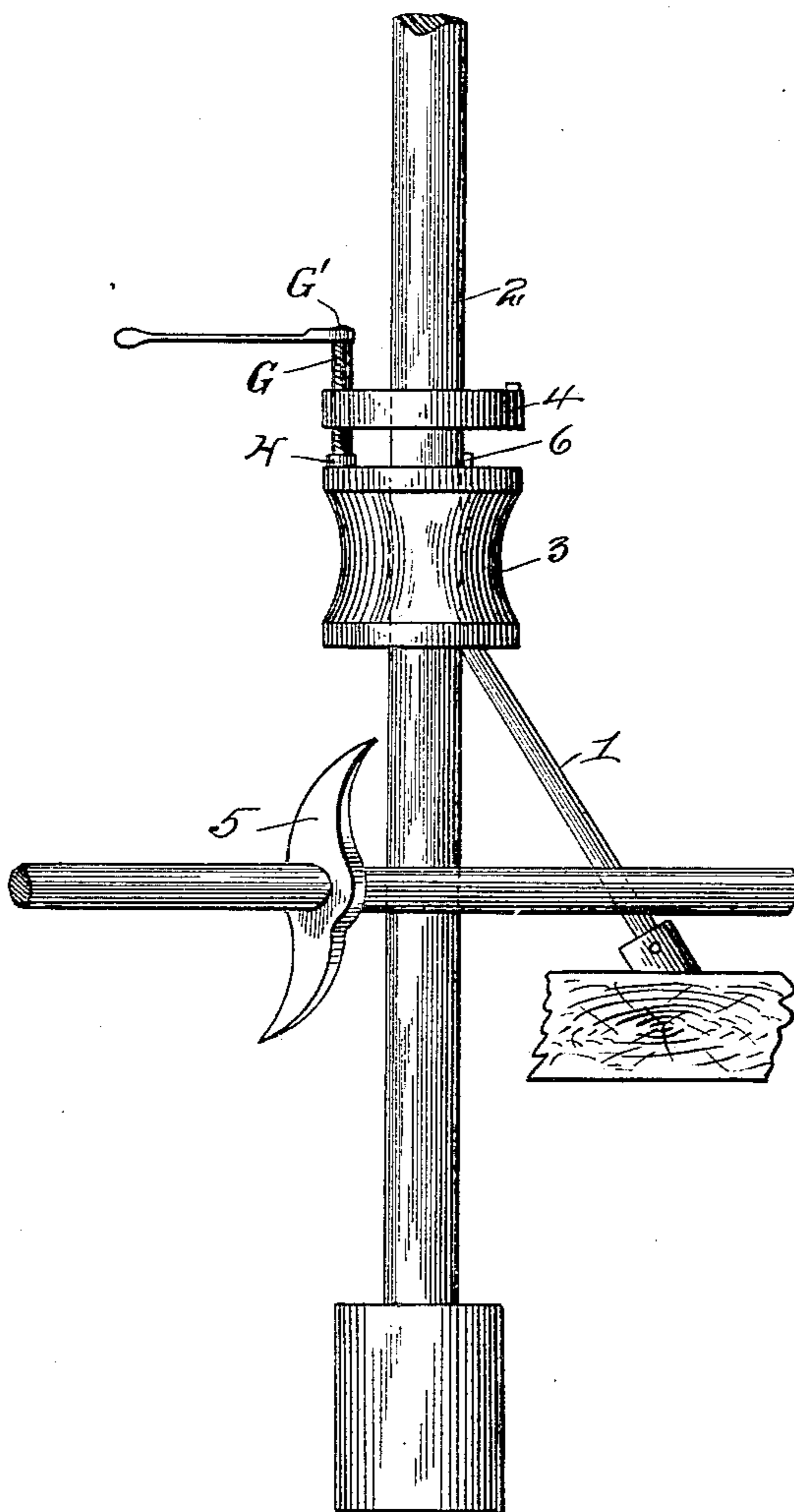
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2 Sheets—Sheet 2.

Fig. 5.



Attest,
C. M. Adair
Am. F. Adair

Inventors,
James Philip McKeown
By Richard & Co
Attys.

UNITED STATES PATENT OFFICE.

JAMES PHILIP McKEOWN, OF NEAR JOHANNESBURG, SOUTH AFRICAN
REPUBLIC.

TAPPET-SETTER.

SPECIFICATION forming part of Letters Patent No. 638,642, dated December 5, 1899.

Application filed May 15, 1899. Serial No. 716,921. (No model.)

To all whom it may concern:

Be it known that I, JAMES PHILIP McKEOWN, a subject of the Queen of Great Britain, and a resident at the Geldenhuis Main Reef Gold Mining Company, Limited, near Johannesburg, South African Republic, have invented a certain new and useful Improved Tappet-Setter, of which the following is a specification.

10 It is necessary in stamp-milling to frequently set the tappets on the stamp-stems, as this determines the amount of "drop" required. Consequently as the shoes and dies wear away the tappet has to be raised on the
15 stem a corresponding amount. It also frequently occurs that the key which secures the tappet to the stem does not fit quite tight, causing the tappet to slip on the stem, with the result that the tappet has to be lowered
20 on the stem. This "setting" of the tappet is at present usually accomplished by employing overhead tackle by means of which the stamp-stem is suspended. The key is then
25 knocked out of the tappet and the tappet readjusted into its proper position. As the operation has generally to be performed without stopping the remaining stamps of the battery, a certain amount of danger is necessarily involved.

30 My invention has been designed with the object of providing a simple and inexpensive apparatus by the use of which tappet-setting is easily and quickly accomplished without the difficulties and dangers aforesaid.

35 My invention is illustrated in the accompanying sheet of drawings, in which—

40 Figure 1 shows a perspective view of the apparatus closed; Fig. 2, a side elevation, partly sectional, the collar being slightly opened; Fig. 3, a ratchet-wrench for use in connection with the apparatus; Fig. 4, a view of the screw G with foot H detached. Fig. 5
45 is a view showing the tappet-setter in operative position on a stamp-stem.

My invention consists of a collar adapted to fit around a stamp-stem constructed in two halves A and B, hinged together at C, the portion A being provided with jaws D, be-

tween which a screw-bolt E, formed on the other end of the portion B, is adapted to be
50 received. F is an elongated nut screwed on the inside, so as to be received upon the threaded portion E aforementioned and furnished with a head F', so as to be readily
55 gripped by the ratchet-wrench. (Shown in Fig. 3.) The portion A of the collar is further bored and threaded to receive the screw G, which moves in a plane parallel to the axis of the stamp-stem, said screw G being provided
60 at one end with a head G', so as to be turned by the aforementioned ratchet-wrench, and at the other end with a loose foot H. The construction of the said bolt G is shown in Fig.
65 4, in which the foot H is shown detached. This foot H is bored so as to be received onto the end of the bolt G and is held in position by the pin H', which is inserted through the
70 hole H², lying in the groove H³. The foot H, therefore, is attached to but does not turn with the screw G.

In operation (see Fig. 5) a stamp 2, with tappet 3, is shown supported by the finger 1, so as not to be operated by the cam 5. 4 is the tappet-setter, in position tightly clamped
75 upon the stamp-stem 2. The key 6 or other device by which the tappet is secured to the stem is then loosened, with the result that the weight of the stamp is taken up by the head H, which bears upon the upper surface
80 of the tappet. On turning the screw G in either direction the stamp-stem 2 will be raised or lowered through the tappet 3, as the case may be, and when adjusted in its proper position relative to the said tappet the key 6 is
85 inserted, so as to tighten the tappet on the stem when the setter is removed from the stem.

Having now described my invention, what I claim as new, and desire to secure by Letters
90 Patent, is—

1. An improved tappet-setter consisting of a collar adapted to be secured around the stamp-stem and provided with a vertical screw to raise or lower the stamp-stem through its tappet which has been previously loosened.
95
2. An improved tappet-setter consisting of

a collar adapted to be secured around the stamp-stem and consisting of two portions A and B hinged as at C the one half being provided with jaws D and the other half with a
5 screwed portion E adapted to be received between the said jaws D the bolt F adapted to be received upon the threaded portion E, the vertically-moving screw G provided with the

head G' and loose foot H, the whole arranged substantially as hereinbefore described. 10

In witness whereof I have hereunto set my hand in presence of two witnesses.

JAMES PHILIP McKEOWN.

Witnesses:

WILLIAM JOHN ROLSON;
D. LEWIS WOOLF.