

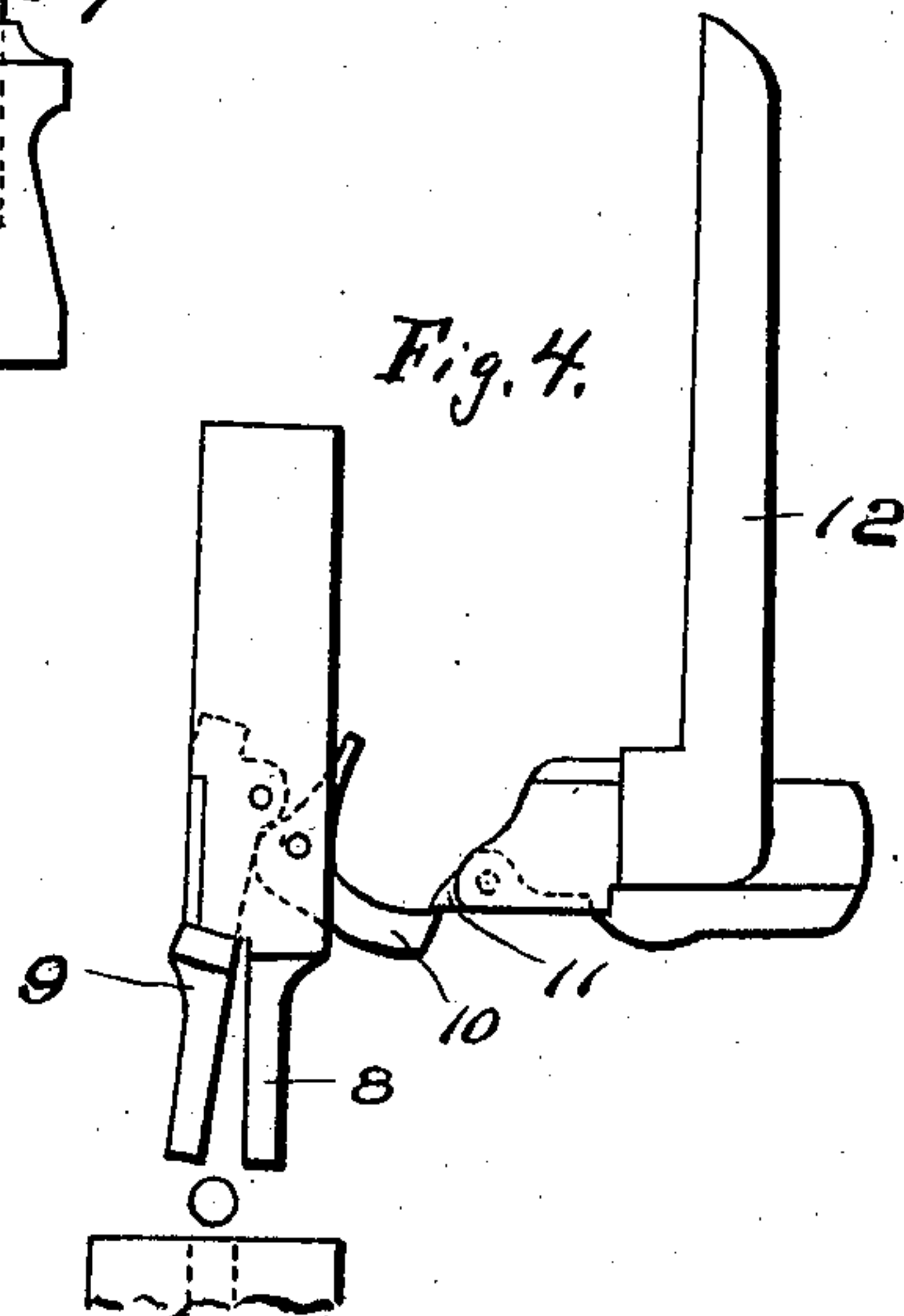
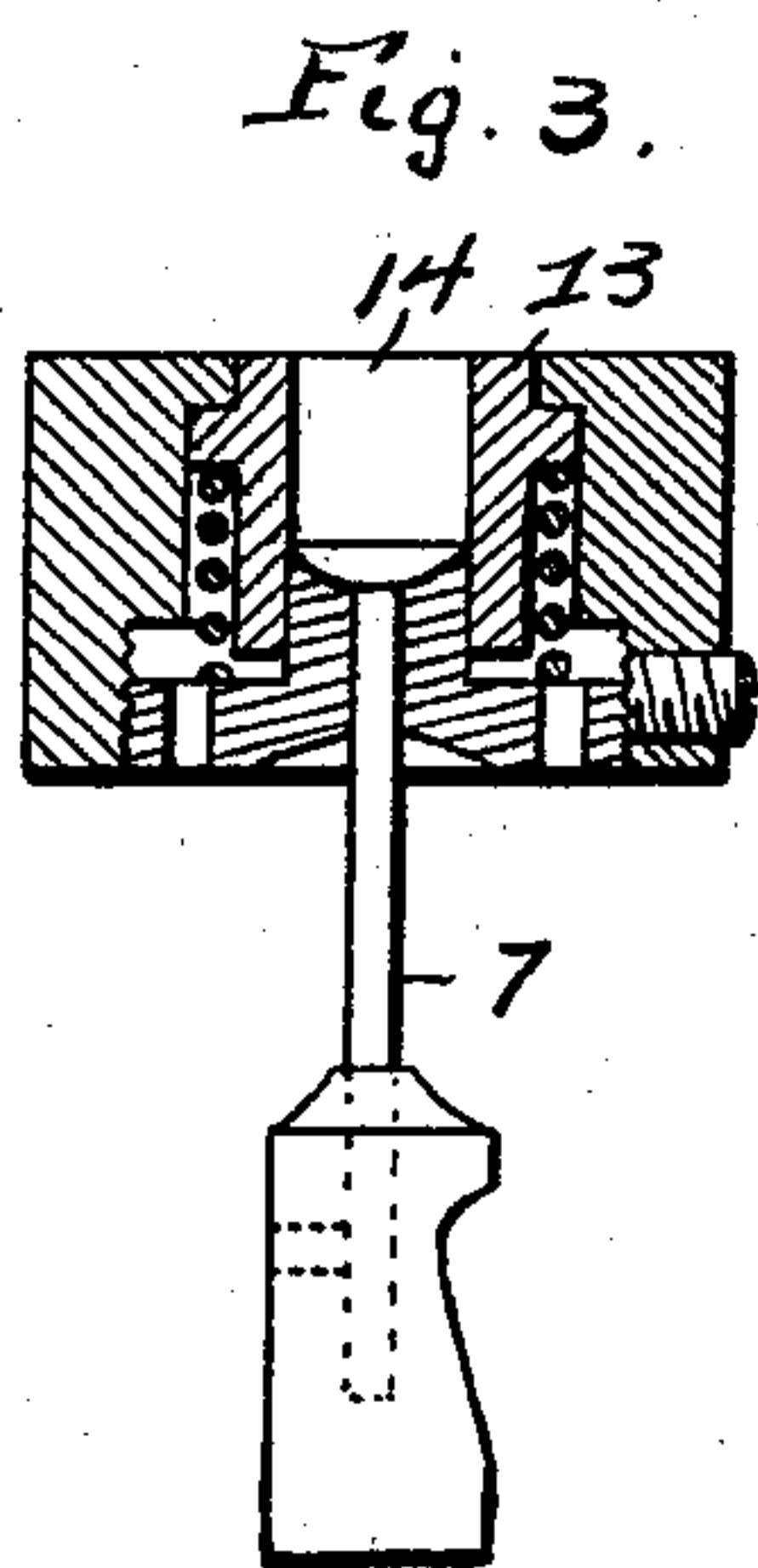
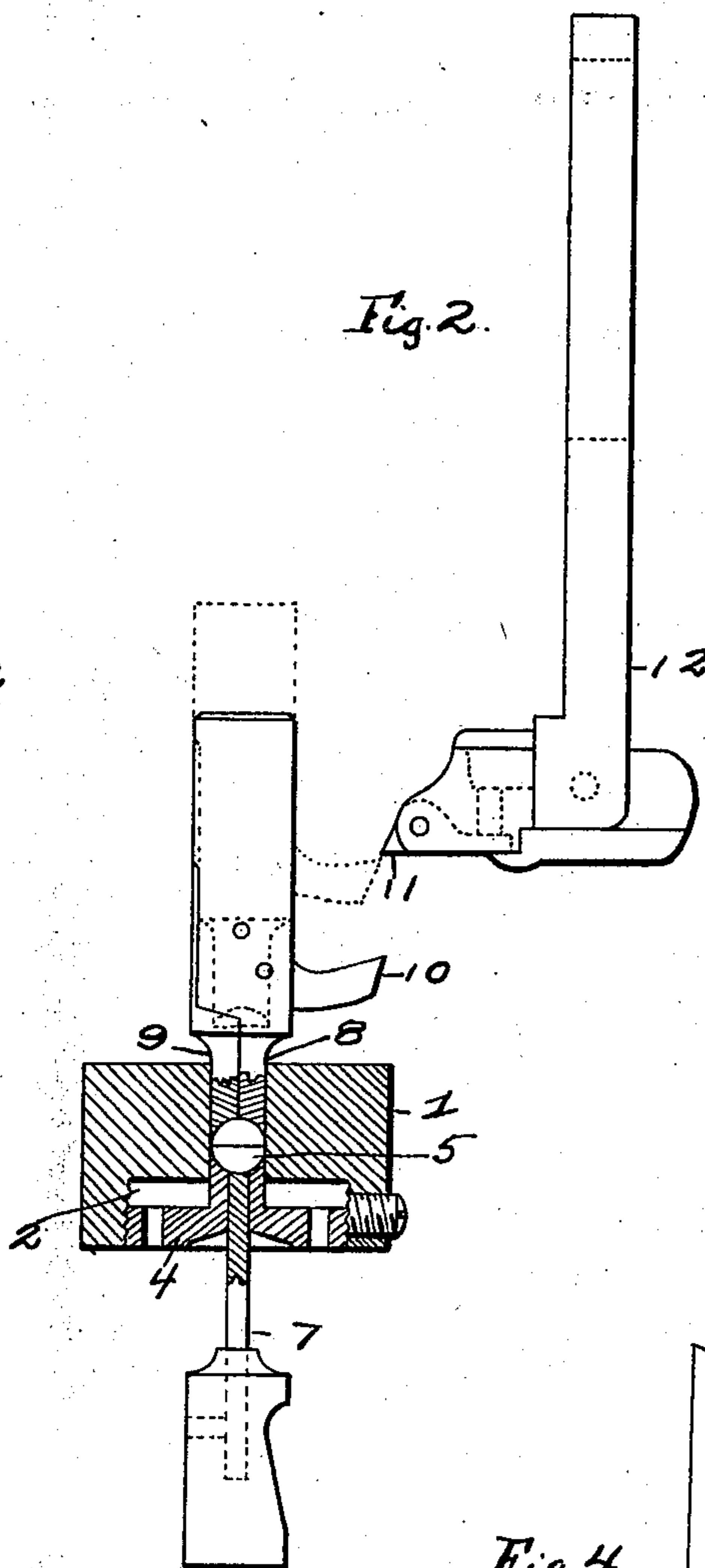
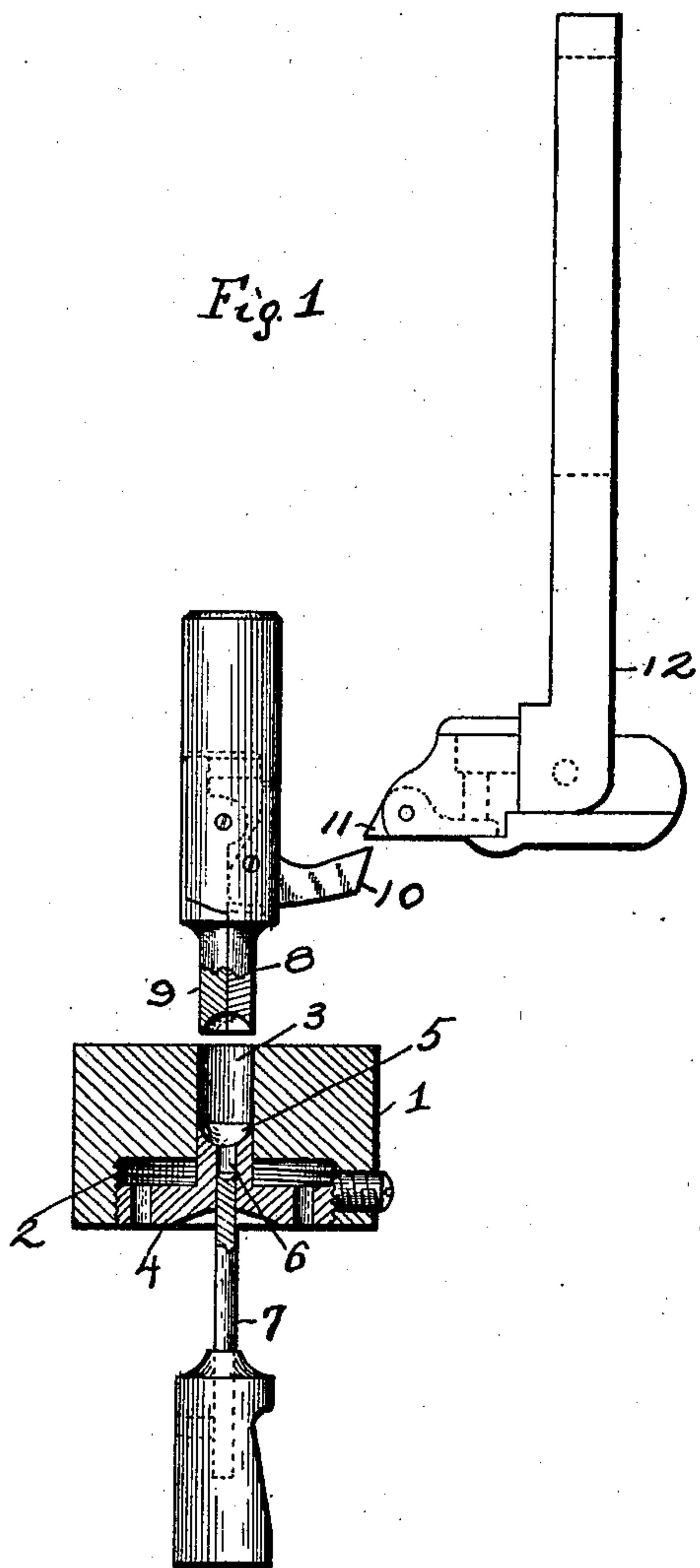
No. 700,370.

Patented May 20, 1902.

W. RABICH.
PILL MACHINE.

(Application filed Sept. 16, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM RABICH, OF ST. LOUIS, MISSOURI.

PILL-MACHINE.

SPECIFICATION forming part of Letters Patent No. 700,370, dated May 20, 1902.

Application filed September 16, 1901. Serial No. 75,582. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM RABICH, a citizen of the United States, residing at St. Louis, in the State of Missouri, (whose post-office address is 3010 Hickory street,) have invented certain new and useful Improvements in Pill-Machines; 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in a compressor-die for pill-machines; and it consists in the novel arrangement, construction, and combination of parts, as will be more fully hereinafter described, and set forth in the claims.

The object of this invention is to construct a die to be adjustable, and its plunger arranged to spread or part on its upward motion, so as to release the pill in case the same should be in any way connected thereon.

Figure 1 is a side elevation of the plunger and spreader attachment, the die shown in section, the parts being detached from the machine. Fig. 2 is a similar view as Fig 1, showing the plunger in pressing operation. Fig. 3 is a vertical sectional view of a modified form of die where an elongated-shaped pill is formed. Fig. 4 is a vertical section showing the hinged plunger in its open position after the compression of the pill.

In the construction of the device as shown I provide a die or casing 1, consisting of a cylindrical body provided with a threaded bore or receiving or pressure chamber 2 and a forming part 3. In the bore 2 is an adjustable nut or die-plunger 4, having a projection 5 extending into the part 3 and its face provided with the die for forming the pill. Through the nut is formed a bore 6, the purpose of which is to allow the passage of the plunger 7 to raise therein and free the pill from the lower half of the die and pass it to the top of the part 3, removing it therefrom. This action is brought about when the pill is formed and the pressure-plunger removed from the die. In the part 3, in conjunction with the adjustable portion, operates a plunger-die 8, consisting of two parts, one station-

ary and the other part 9 hinged. The purpose of this is to provide a means whereby the pill can be readily released from the end of the plunger in cases where the same may stick thereto. This feature is accomplished by the dog 10, hingedly carried by the stationary portion of the plunger. On the upward movement of the plunger the dog 10 comes in contact with the dog on projection 11, formed on the bracket 12, which is carried by the machine, and spreads the portion 9 of the plunger apart from the stationary member and releasing the pill.

As shown in the modification, I provide and construct a die with an additional nipple 13, held upwardly by a spring and provided with an elongated opening 14 for forming pills of such shape.

Having fully described my invention, what I claim is—

1. A compressor-die for pill-machines, comprising a casing, a die-plunger adjustably mounted in the casing, a spreading plunger and means for operating the same, substantially as specified.

2. A compressor-die for pill-machines, comprising a casing, a die-plunger adjustably mounted in the casing, an upwardly-moving plunger operating through the casing, and a spreading plunger for compressing the material, substantially as specified.

3. A compressor-die for pill-machines having a casing provided with a receiving-chamber, a die-plunger adjustably mounted in the chamber, a plunger operating through the casing for releasing the pill from the chamber, a plunger for compressing and forming the pill in the chamber, and means for spreading the same when released from the chamber, substantially as specified.

4. In a device of the class described, comprising a vertically-reciprocating plunger adapted to spread when released from the pressure-chamber, a casing for receiving the plunger for compressing the material to form the pill, and means for releasing the pill from the chamber at the upward movement of the plunger, substantially as specified.

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

WILLIAM RABICH.

Witnesses:

ADOLPH M. FRICKE,
IGNATIA WIEGREFFE.