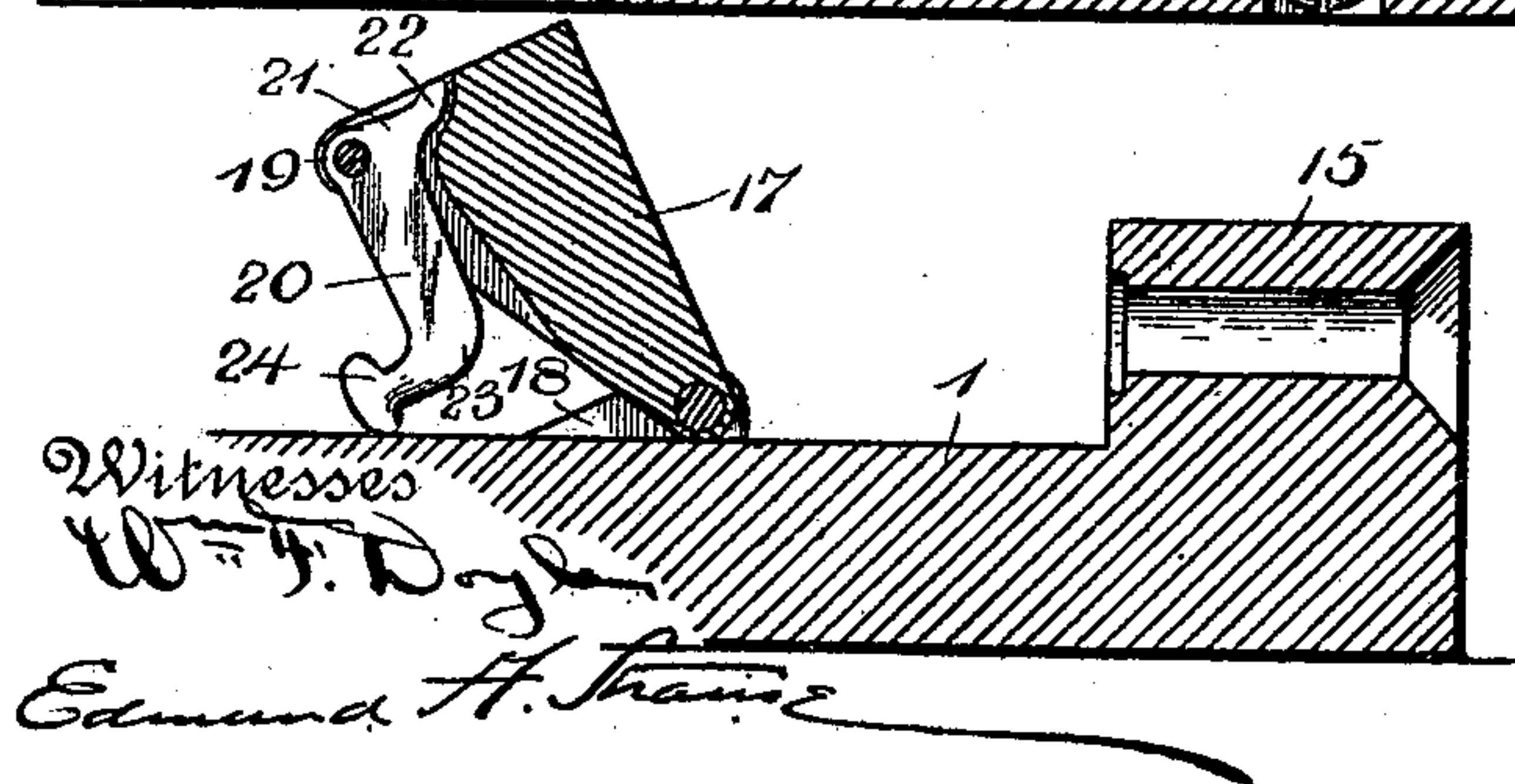
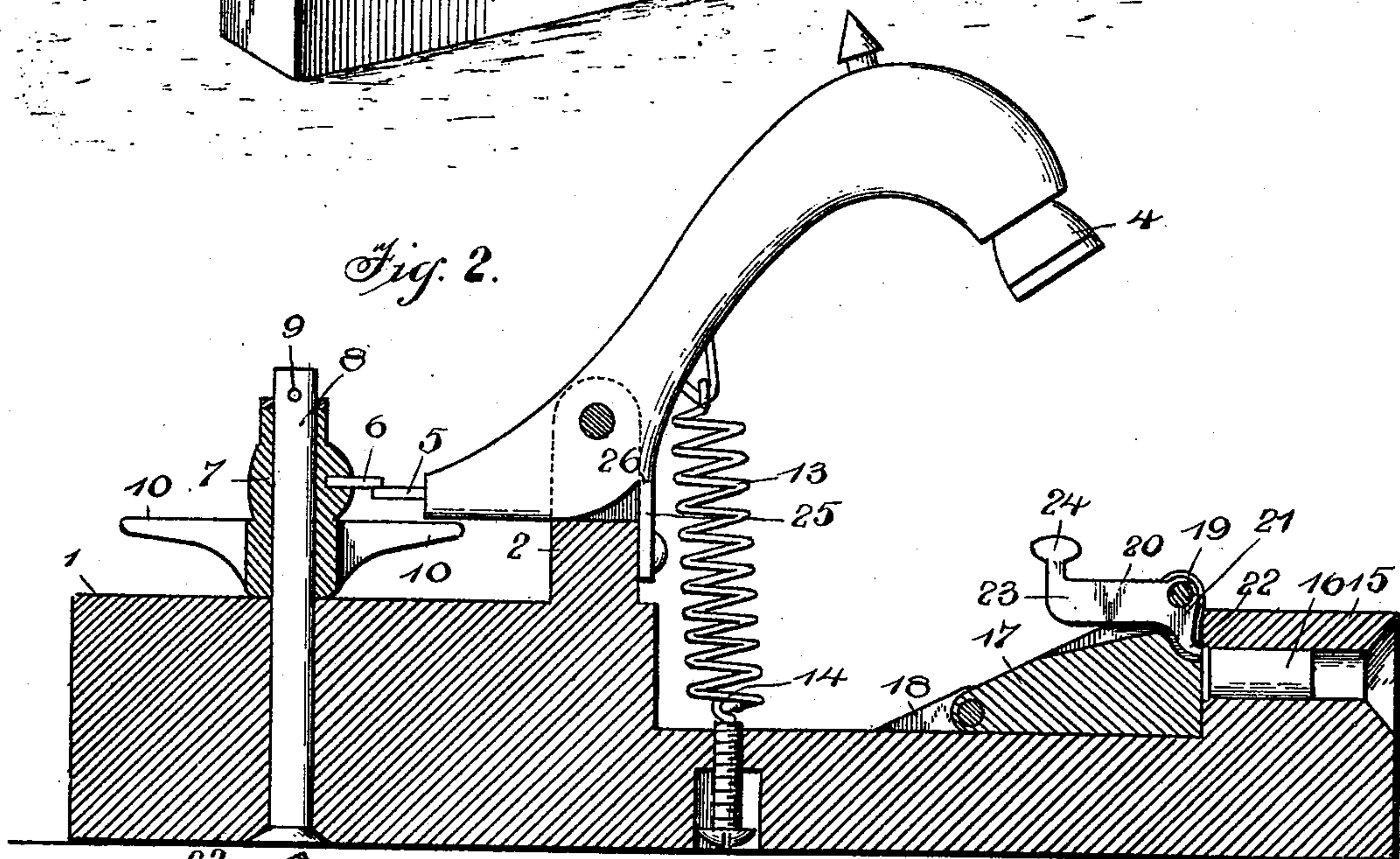
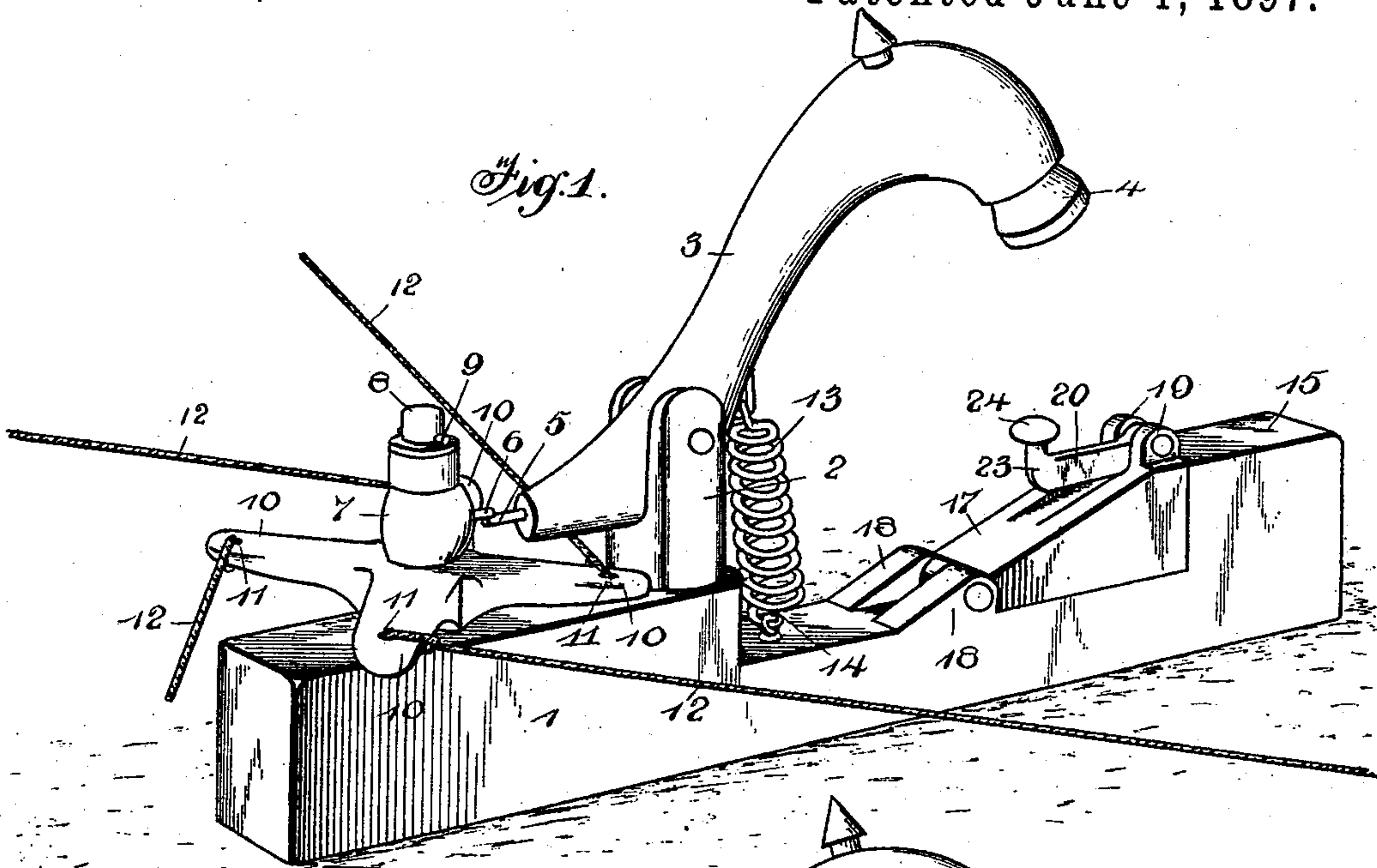


(No Model.)

G. W. NELSON.
BURGLAR ALARM.

No. 583,543.

Patented June 1, 1897.



Inventor
Geo. W. Nelson
By H. B. Wilson
Attorney

UNITED STATES PATENT OFFICE.

GEORGE W. NELSON, OF FIVE FORKS, PENNSYLVANIA.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 583,543, dated June 1, 1897.

Application filed December 10, 1896. Serial No. 615,145. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. NELSON, a citizen of the United States, residing at Five Forks, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in Burglar-Alarms; 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 has relation to burglar-alarms; and the object is to provide a spring-gun of this class for the outside of dwellings, residences, and the like, to give an audible alarm and notify the occupants of the presence of intruders.

To this end the novelty consists in the construction, combination, and arrangement of the same as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same reference-numerals indicate the same parts of the invention.

Figure 1 is a perspective view of my improved burglar-alarm. Fig. 2 is a longitudinal section showing the hammer locked to prevent the accidental tripping of the alarm, and Fig. 3 is a detail showing the breech-block thrown back to insert the cartridge.

1 represents a suitable base-block having an integral standard 2, its upper end terminating in bifurcated jaws in which is fulcrumed the hammer-lever 3, its forward or free end terminating in a hammer-head 4 and its rear end provided with a pin 5, which projects under a trigger 6, extending radially from the hub 7, journaled on a vertical stud 8, mounted in the base-block. This hub is secured in place on the stud by a transverse pin 9, so as to permit a free horizontal rotation of said hub.

10 10 represent a series of radial horizontal integral arms on said hub, and their outer ends are formed with eyes 11, in each of which is secured one end of a cord or wire 12, the opposite end thereof being made fast in the same horizontal plane to any stationary object.

13 is a spiral spring secured at its upper end to the hammer end of the lever 3 and its lower end to an eye 14 in the base-block.

15 represents the cartridge-barrel, which may be cast integral with the base-block.

16 represents the cartridge, and 17 the hinged breech-block, which is pivoted at its rear between the integral lugs 18 18 on the base. This breech-block may be raised and swung back out of the way to insert the cartridge, and its upper forward end is formed with a longitudinal slot between the parallel lugs 19 19 to receive a lever 20, the shorter depending arm 21 of which is provided with a forwardly-projecting anvil 22, which rests against the fulminating-rim of the cartridge. The rear end of the horizontal arm 23 of said lever 20 is provided with a vertical stud 24, located immediately below and in the path of the descending hammer-head 4.

25 represents a transversely-pivoted vertical pawl, the upper end of which engages a detent 26 in the hammer-lever to sustain it in a cocked position and prevent its accidental release. When the alarm is to be put in operation, this pawl is pushed to one side and the hammer-lever held in place by the pin 5, engaging the under side of the radial trigger 6, and when so adjusted the least movement of the hub 7 on its axis will cause its trigger to release the pin, thereby permitting the spring to draw the hammer down on the stud 24 to explode the cartridge.

In practice the alarm may be placed on a porch or any suitable spot on the lawn or yard, and the leading cords or wires run to suitable points—as, for instance, one may be connected to a gate or door opening outwardly, while the remaining cords or wires radiate in different directions about six inches above the ground and their outer ends made fast to the fence or a peg driven in the ground for that purpose. When so arranged, a person crossing the path of any one of the wires or opening the gate will rotate the hub sufficiently to release the pin 5 and explode the cartridge. If desirable, one of the wires may be led at a right angle from an appropriate arm on the hub in line with the cartridge-barrel and a ball-cartridge inserted, the explosion of which by that particular wire is almost certain to maim the intruder about the lower portion of the legs.

Although I have specifically described the construction and relative arrangement of the

several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention, without departing from the spirit thereof.

5 Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

10 1. A burglar-alarm, comprising the cartridge-barrel, the pivoted breech-block and the lever 20 provided with the anvil 22, and the stud-arm 23, in combination with the pivoted hammer-lever, the spring, and the pin
15 5, the horizontally-rotating hub 7 provided with the integral radial trigger 6 and radial arms 10 10, substantially as shown and described.

2. A burglar-alarm, comprising the base-

block having the integral cartridge-barrel and 20 the pivoted breech-block, the lever 20, pivoted in said breech-block and provided with an integral anvil 22, and a vertical stud 24, the hammer-lever fulcrumed between integral standards arising from the base-block, 25 the spring connecting said hammer-lever and base-block, and the pin 5 projecting horizontally from the rear end of said hammer-lever, in combination with the horizontally-rotating hub 7 provided with an integral trigger and 30 integral radial arms, substantially as shown and described.

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

GEORGE W. NELSON.

Witnesses:

GEO. E. TERRY,

A. B. SUIT.