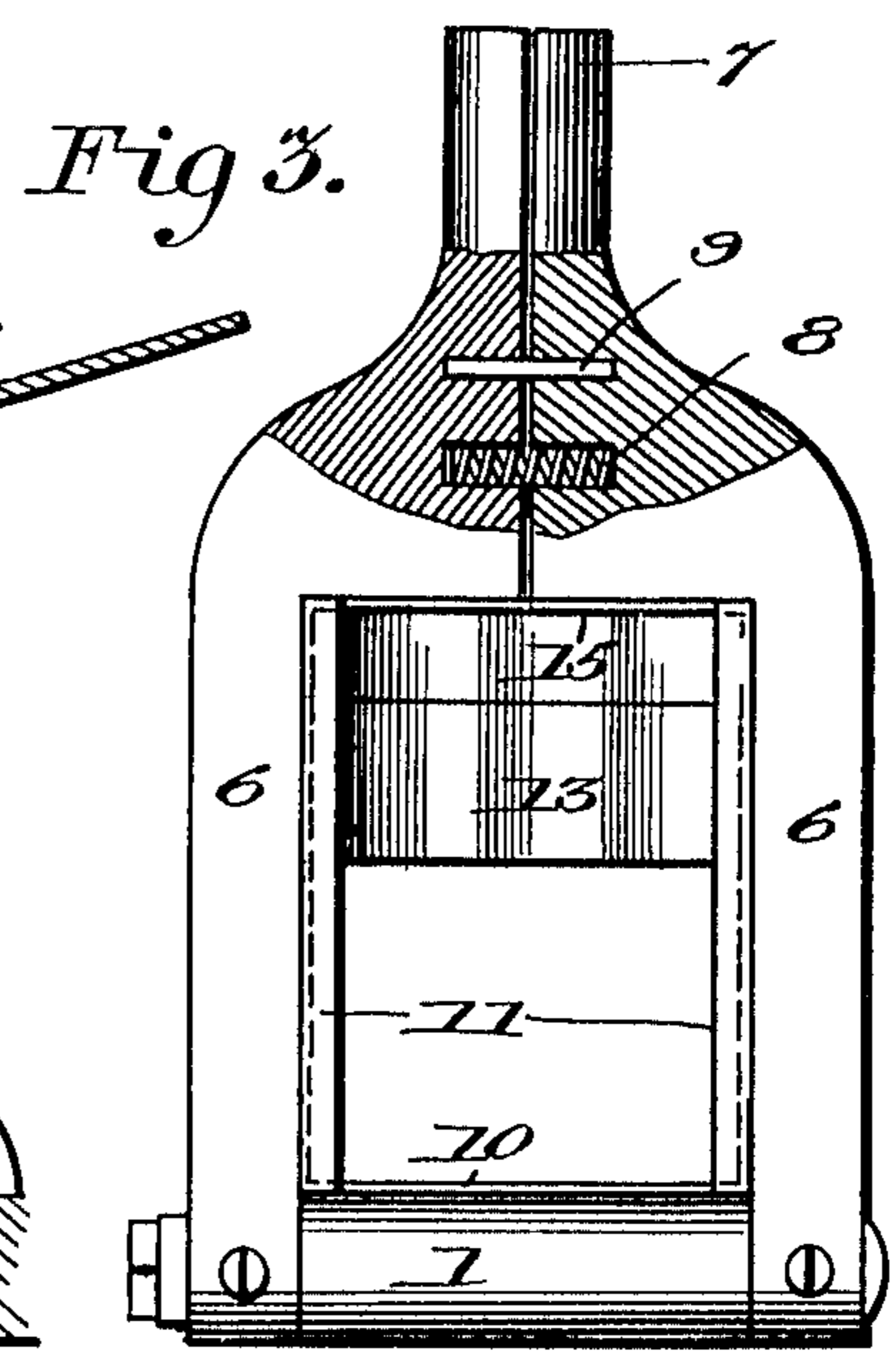
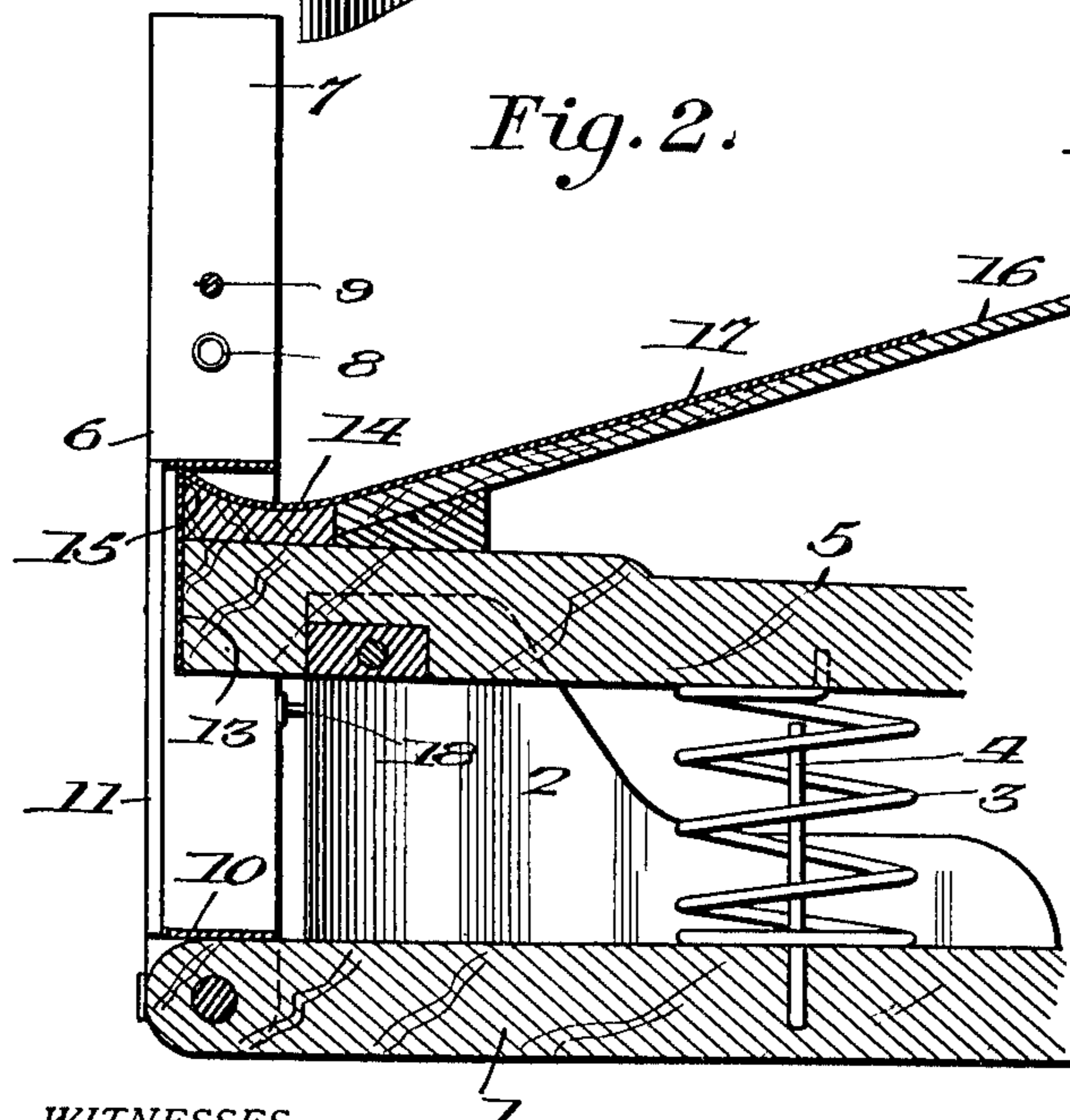
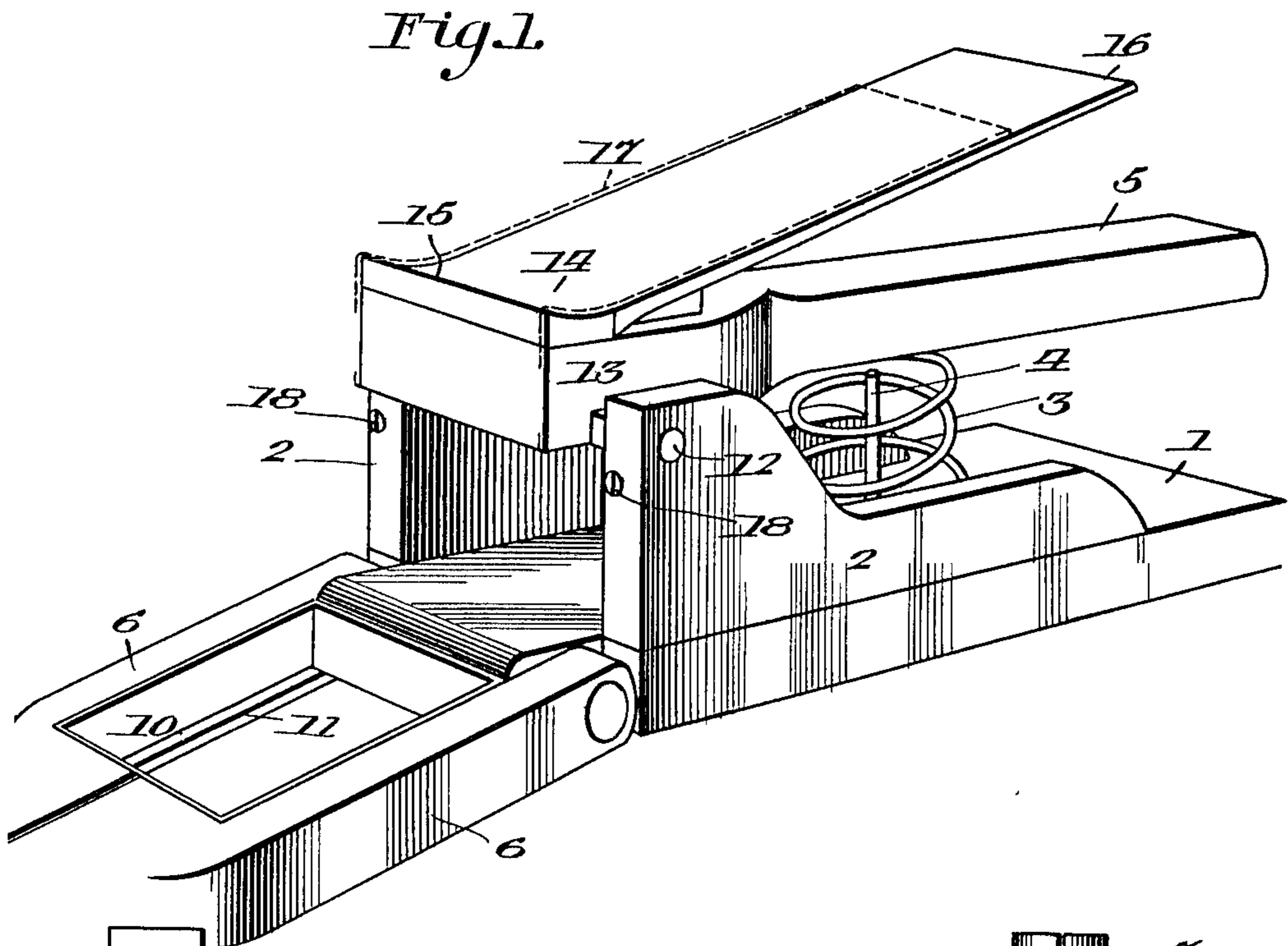


D. S. JENKINS.
 FOUNDATION FASTENER.
 APPLICATION FILED APR. 29, 1912.

1,035,709.

Patented Aug. 13, 1912.



WITNESSES

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UNITED STATES PATENT OFFICE.

DULA S. JENKINS, OF LAS ANIMAS, COLORADO.

FOUNDATION-FASTENER.

1,035,709.

Specification of Letters Patent.

Patented Aug. 13, 1912.

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To all whom it may concern:

Be it known that I, DULA S. JENKINS, citizen of the United States, residing at Las Animas, in the county of Bent and State of Colorado, have invented new and useful Improvements in Foundation Fasteners, of which the following is a specification.

My present invention pertains to means for fastening comb foundations in frames which are to be placed in bee hives in order to afford a starter for the bees.

The object of my invention is to provide a foundation fastener that is inexpensive in construction and so simple that any one can operate it to advantage, and one that is positive in its work, and the operation of which does not involve any waste of the wax comb foundation.

With the foregoing in mind, the invention will be fully understood from the following description and claims when the same are read in connection with the drawings, accompanying and forming part of this specification, in which:

Figure 1 is a perspective illustrative of my novel fastener. Fig. 2 is a longitudinal vertical section of the same with some of the parts in elevation. Fig. 3 is a front elevation of the device with part of the clamping lever in section.

Similar numerals of reference designate corresponding parts in all of the views of the drawings.

The base 1 of the device is provided with standards 2, arranged slightly back of the forward end of the base, and on the said base is arranged a coiled spring 3 and an upright pin 4; the spring having for its purpose to raise the cutter lever 5 when said lever is relieved of downward pressure, and the pin 4 being designed to limit downward movement of said cutter lever.

Pivoted at opposite sides of the forward extension of the base 1 are the members 6 of the vertically movable clamping lever; the said members terminating at their upper ends in handle portions 7 that are yieldingly pressed apart by a coiled spring 8 and are held against forward and backward movement with respect to each other by a dowel pin 9 fixed to one and disposed in a socket in the other. By virtue of the clamping lever being constructed as shown and equipped with the spring 8, it will be manifest that a frame or section, indicated by 10 in Fig. 2, can be placed between the mem-

bers 6 and against the flanges or cleats 11 at the inner sides thereof, and then by gripping the handle portions 7, the operator is enabled to securely hold the section or frame 10 in the clamping lever.

The cutter lever 5 is fulcrumed at 12 between the standards 2, and is provided with the forward square end 13. Said lever 5 is also provided at its upper side with a concavity 14 that extends rearward from the square end 13 and serves therewith to form a cutting edge 15. The concavity 14 merges into and serves in connection with an upwardly and rearwardly inclined bar 16 to support the wax comb foundation indicated by 17; the bar 16 being arranged above and fixed with respect to the lever 5.

In the practical operation of my invention the section or frame 10 that is to be equipped with a foundation or starter is arranged in the clamping lever 6, as shown in Fig. 1, and the wax comb foundation is placed on the bar 16 and concavity 14 and so that a suitable length thereof overhangs the forward end of the lever 5; the length of the overhanging portion being varied according to the height of foundation desired. After the described placing of the section or frame 10 and the wax foundation 17 as described, the clamping lever is swung up into the position shown in Fig. 2 when the upright portion of the foundation will be severed from the remainder thereof and at the same time will be fastened in the section or frame. With this done the clamping lever is swung to the lower position and released, when the mentioned section or frame is removed from the said lever and a fresh section or frame placed therein. The foundation 17 is then adjusted forward to the extent desired and its forward portion made to overhang the forward end of lever 5, more or less, when the described operation is repeated.

It will be understood from the foregoing that a starter or comb foundation of any length desired from one eighth of an inch up; also, that when desired, a starter may first be placed in one end of a frame and then a second starter can be placed in the opposite end of said frame.

It will further be understood that the equipping of the sections or frames each with one or more starters is materially advantageous inasmuch as the bees are less liable to build crooked combs, and the comb

will be attached to the bottom of the section or frame which is not always the case when the bees are depended on to start the comb. This will be appreciated as an important advantage when it is remembered that sections or frames that are only occupied in part by combs can only be marketed as "culls."

At 18 each of the standards 2 is provided with an adjustable screw. These screws can be turned into the standards to a greater or less extent so as to regulate the position of the foundation in the section or frame 10. For instance by properly adjusting the screws 18 the said screws will stop the clamping lever in such position as to place the foundation in the center of the section or frame 10, while turning of the screws 18 into the standards 2 to a greater extent will be attended by placing of the foundation nearer the forward edge of the section or frame than the rear edge thereof, as shown in Fig. 2.

Having described my invention, what I claim and desire to secure by Letters Patent, is:

1. A foundation fastener for hive sections or frames, comprising a base having standards and also having a portion extending forward beyond the standards, a cutter lever fulcrumed between and extending forward beyond the standards and having a square forward end and also having a concavity at its upper side extending rearward from said end, an upwardly and rearwardly inclined support fixed on the lever and merged at its forward end into said concavity, a coiled spring interposed between the base and said lever and adapted to raise the latter, an upright pin fixed to and rising from the base and adapted to limit downward movement of the rear arm of the lever, and clamping lever members fulcrumed at opposite sides of the forwardly extending portion of the base and having inwardly directed flanges on their forward portions and also having opposed handle portions, a spring socketed in said opposed portions and tending to move the same apart, and a dowel pin carried by one of said portions and disposed in a socket in the other portion.

2. A foundation fastener for hive sections or frames, comprising a base having standards and also having a portion extending forward beyond said standards, a cutter lever fulcrumed between and extending forward beyond the standards and having a foundation support and also having a cutting edge at its forward end, a clamping lever fulcrumed at opposite sides of the forwardly extending portion of the base and having inwardly directed flanges, and screws turned into the forward ends of the standards and adapted to limit the rearward movement of the clamping lever.

3. The combination in a foundation fastener of a main frame, a combined foundation support and cutter mounted and movable in said frame, and a clamping lever connected with the main frame and constructed to receive and hold a hive section or frame and movable with respect to the main frame and the combined foundation support and cutting lever.

4. A foundation fastener comprising a main frame, a combined cutting lever and foundation support mounted in said frame, clamping lever members fulcrumed on said frame and having inwardly directed portions and also having opposed handle portions, means interposed between said handle portions for yieldingly holding the same apart, and means carried by one of the handle portions and socketed in the other for retaining the handle portions in proper position relative to each other.

5. The combination in a foundation fastener, of a main frame, a combined foundation support and cutter mounted and movable in said frame, clamping lever members connected with the main frame and constructed to receive and hold a hive section or frame and having opposed handle portions, and means for yieldingly moving the said members apart.

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

DULA S. JENKINS.

Witnesses:

C M ROBLE,
FRANK I. KREYBILL.