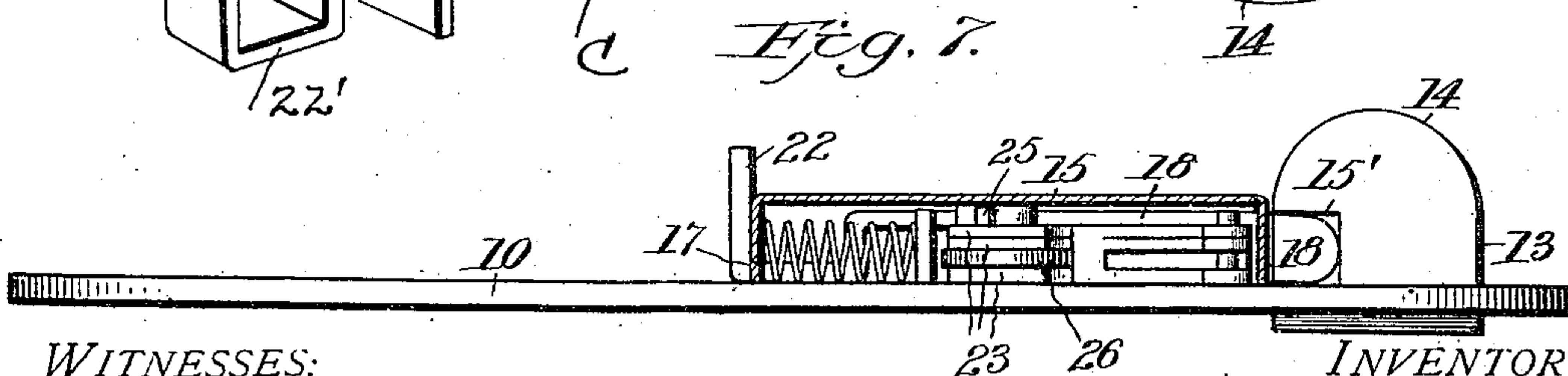
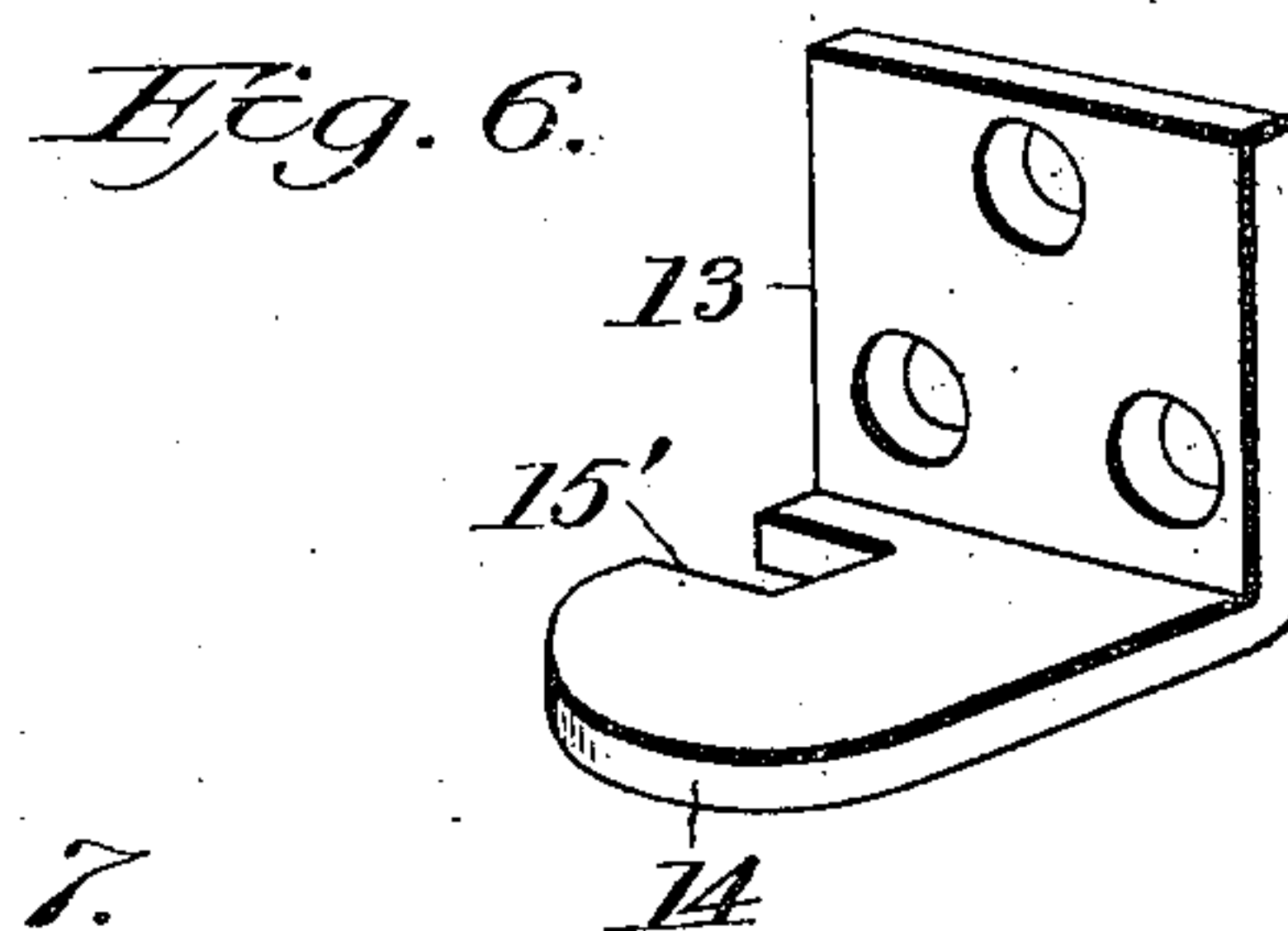
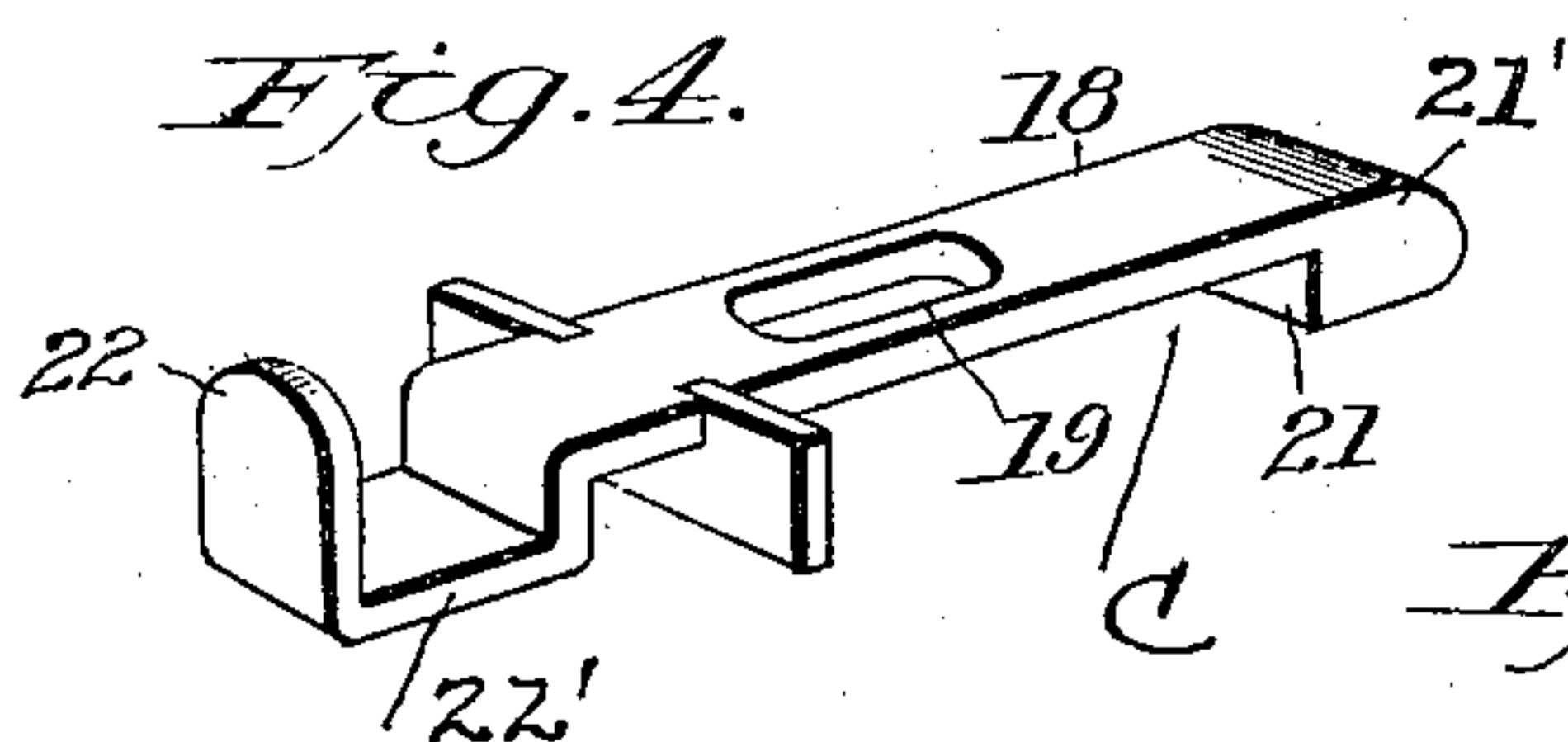
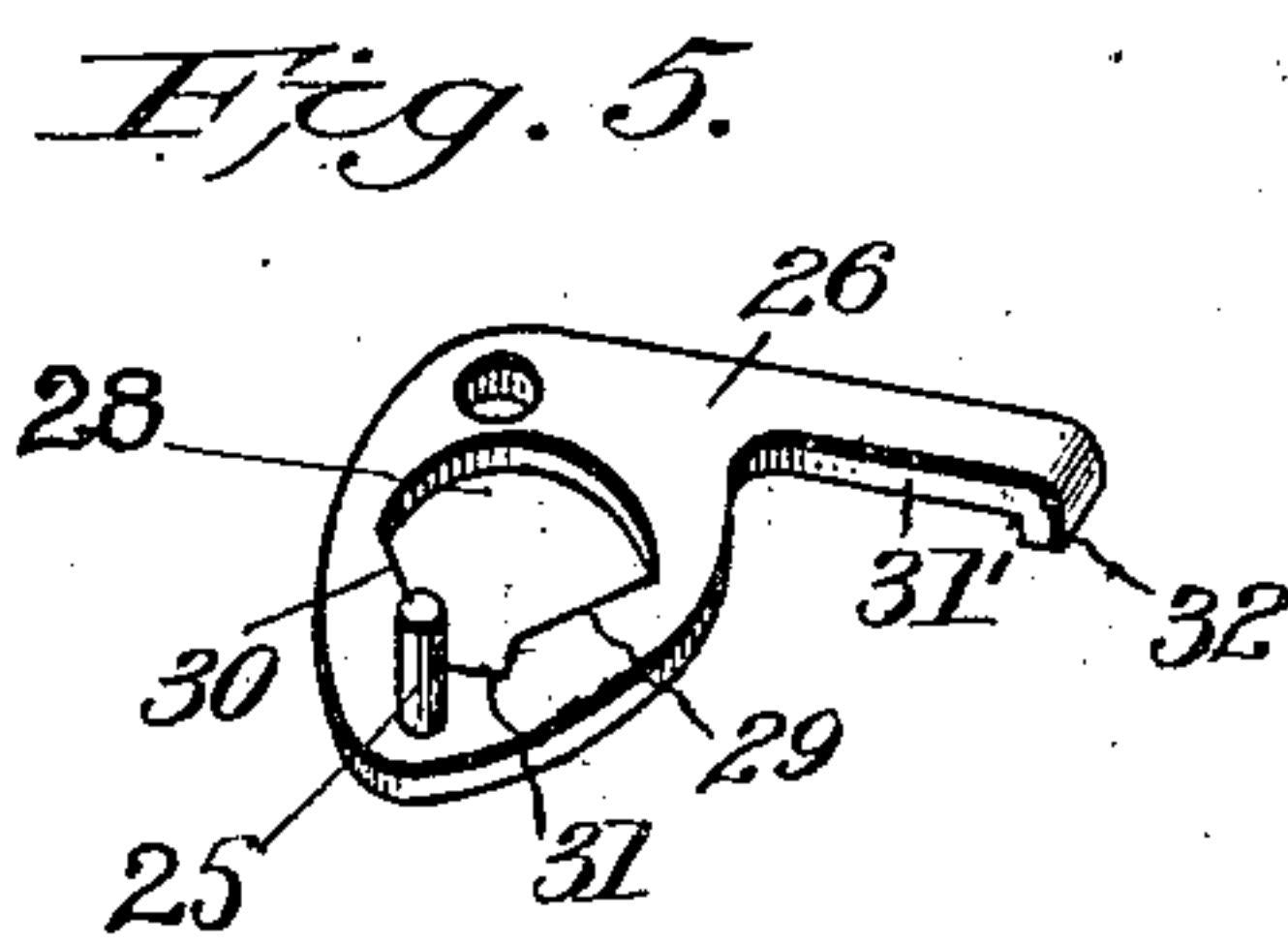
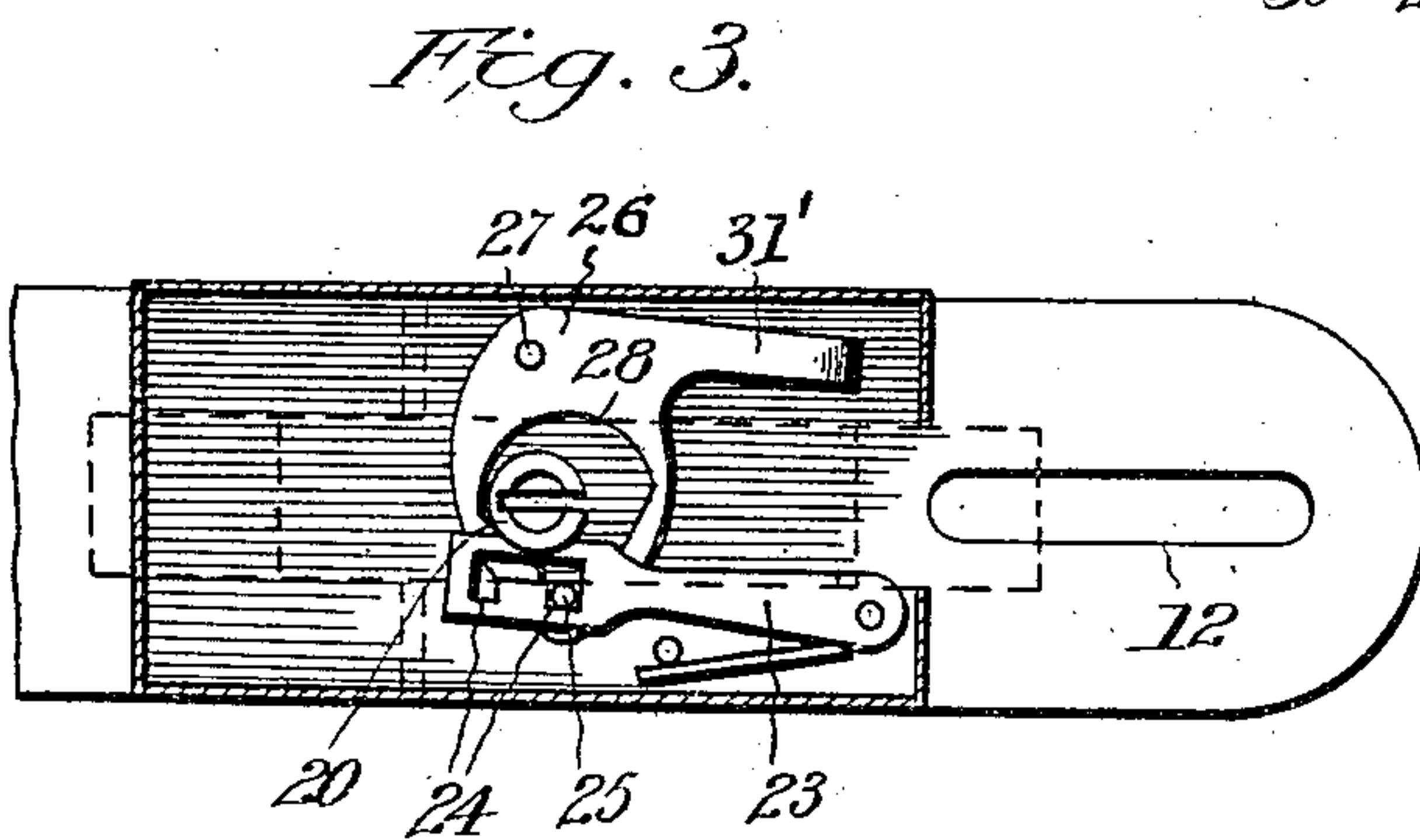
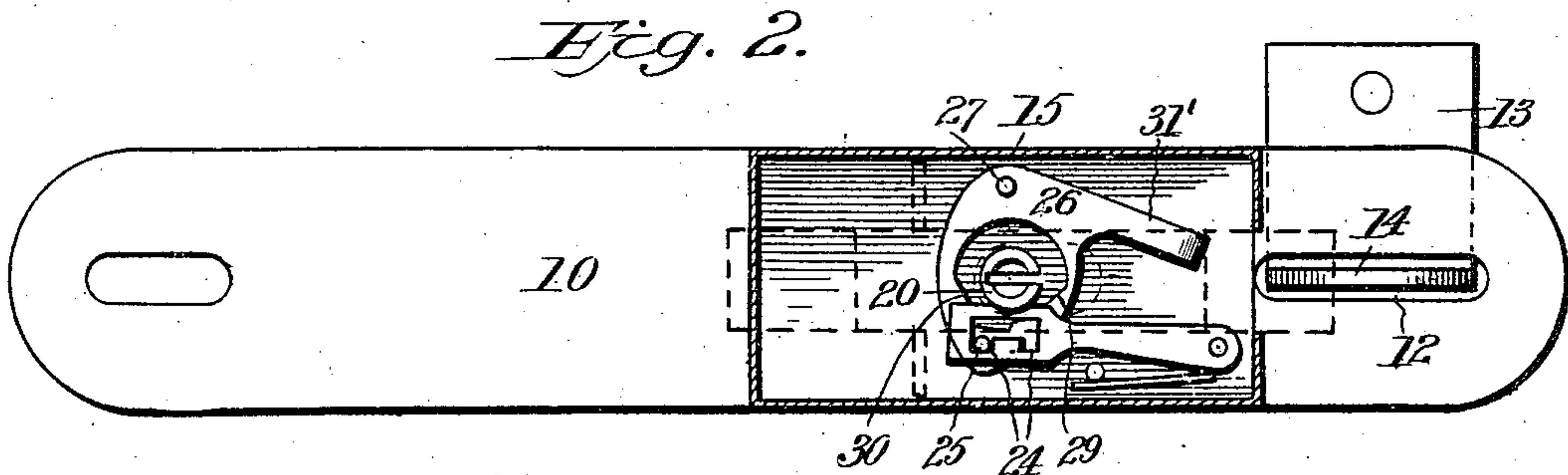
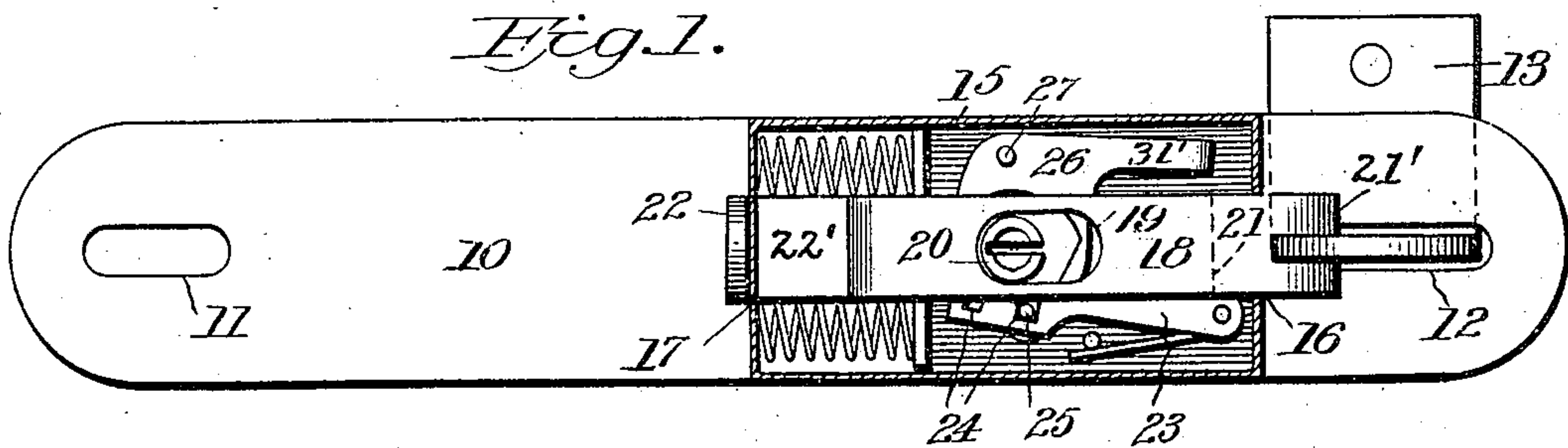


No. 843,564.

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P. GRABLER.
HASP LOCK.

APPLICATION FILED APR. 5, 1905.



WITNESSES:

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UNITED STATES PATENT OFFICE.

PETER GRABLER, OF CLEVELAND, OHIO.

HASP-LOCK.

No. 843,564.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed April 5, 1905. Serial No. 253,969.

To all whom it may concern:

Be it known that I, PETER GRABLER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Hasp-Locks; and I do hereby 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.

This invention relates to certain new and useful improvements in hasp-locks.

The invention has for its object the combination, with a hasp, of a spring-latch, whereby said hasp is locked against detachment from its retaining device when the parts are engaged.

A further object is to provide simple and efficient means whereby the bolt of the lock may be held against movement.

A further object is to provide a simple and inexpensive strike for a hasp-lock.

To these ends the invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of my improved hasp-lock complete, the top casing of the lock being removed. Fig. 2 is a plan view of the lock, illustrating the positions of the parts when the bolt is held against movement, said bolt being shown in dotted lines. Fig. 3 is a similar view showing the positions assumed when the bolt is free to be moved. Fig. 4 is a detail view of the bolt. Fig. 5 is a similar view of the bolt-engaging device. Fig. 6 is a detail view of the strike. Fig. 7 is an edge view of the hasp, lock, and strike in locked position, the casing being shown in section.

Referring to the drawings, 10 designates a hasp of usual form provided with an opening 11 to receive a staple or other securing means and an opening 12 at its opposite end to receive the strike. Said strike comprises an angular plate 13, one member of which is provided with a curved or cam edge 14, terminating in a notch 15', the other member of said plate being provided with holes or openings to receive screws or other securing devices.

The locking mechanism is contained within a casing 15, secured to the hasp by any suitable means and provided with forward and rear openings 16 17 to guide the locking-bolt 18, the latter being also guided by means of a slot 19, embracing the sleeve or bushing 20, which is adapted to receive the

operating-key. Said bolt is provided at its forward end with a thickened portion 21', having a rounded edge and forming a shoulder 21, the purpose of which will be later described. The rear end of said bolt is bent down to pass through the opening 17 and is provided with a horizontal portion 22' and an upturned extension or finger-piece 22. The space between the thickened portion 21' and bent portion 22' and the contiguous face of the hasp forms a chamber C.

The tumblers may be of any preferred number, and, as shown, each comprise a pivoted spring-pressed member 23, having notches 24 to receive the pin 25 upon the locking member 26, the latter being pivoted at 27 to the hasp. The body portion of said locking-plate is substantially circular and provided with an approximately centrally-located hole or opening 28 to permit free movement of said member without interference from sleeve 20, said hole or opening being provided with forward and rearward inclined surfaces 29 30, terminating in a notch 31, adapted to receive the bit of the key. Extending forwardly from the body of said locking member is a tangentially-arranged arm or projection 31', projecting into chamber C and having a bent or shouldered end 32, adapted to engage the shoulder 21 of the locking-bolt. It will be noted that the tumblers 23 extend across the face of plate 26, approximately parallel with the arm or projection 31', spanning the open space formed by the inclined key-engaging faces 29 30.

It will be observed that the bolt reciprocates across the face of the locking member 26, the locking-arm 31' being normally to one side of the path traversed by the shoulder 21 of the bolt when the latter is reciprocated, thus leaving the latter free to be moved back and forth under pressure upon the finger-piece 22 or under the influence of its impelling-springs. When it is desired to lock the bolt against movement, the key is inserted, and the bit thereof passing off the inclined surface 29 into the notch 31 moves the tumblers to disengage them from the pin 25, permitting the key to swing the locking-plate 26 upon its pivot and to bring the shouldered end 32 of the arm or projection 31' under the shoulder 21 of the locking-bolt, thus preventing rearward movement of the latter, the bit of the key in its continued movement passing out of the notch 31 and along the inclined surface 30 and back to its original position.

When the parts are thus locked, forward movement of the bolt is prevented by the finger-piece 22 and rearward movement is prevented by the locking plate or member 26.

5 To unlock, it is only necessary to reverse the foregoing operation. In practice the lock is normally in the unlocked condition, whereby when the hasp is moved over the strike 13 the rounded edge of the bolt will slide over the
10 curved or cam edge 14, being retracted against the action of its springs, and when opposite the notch 15 will spring into the latter, holding the parts in engagement. When desired to unlock or disengage the parts, it is
15 only necessary to withdraw the bolt by means of the finger-piece 22. When it is desired to secure the parts against disengagement, the bolt is locked, as heretofore described.

The advantages of my invention will be at
20 once apparent to those skilled in the art to which it appertains. It will be particularly observed that I have provided a hasp-lock with a spring-bolt and means whereby said bolt may be securely locked against with-
25 drawal. It will also be observed that I have provided a hasp-lock which is exceedingly simple and compact in construction and efficient in operation. Another advantage is that by means of my improved lock-strike
30 the parts are automatically locked by placing the hasp in position thereover.

I claim as my invention—

1. A lock of the character described comprising a spring-pressed bolt provided with a
35 depending shoulder, a pivoted locking member adapted to engage said shoulder, the body of said locking member being provided with an approximately central opening forming a key-engaging portion, and locking
40 means for said member extending across said key-engaging portion.

2. A lock of the character described comprising a spring-pressed bolt provided with a depending shoulder, a locking member pro-
45 vided with a tangentially-arranged arm adapted to engage said shoulder, the body of said locking member being provided with an approximately central opening forming a key-engaging portion, and locking means for
50 said member extending across said key-engaging portion.

3. A lock of the character described comprising a spring-pressed bolt provided with a depending shoulder, a pivoted locking mem-
55 ber provided with a tangentially-arranged arm or extension having a downturned end forming a shoulder adapted to engage the shoulder on said bolt, the body of said locking member being provided with an approxi-
60 mately central opening forming a key-engaging portion, and locking means for said member extending across said key-engaging portion.

4. A lock of the character described com-
65 prising a spring-pressed bolt provided with a

depending shoulder, and a pivoted locking-member adapted to engage said shoulder, a pin carried by said locking member, and locking means engaging said pin.

5. A lock of the character described com- 70
prising a spring-pressed bolt having a depending thickened portion forming a locking-shoulder, and an angular portion forming a finger-piece, a pivoted locking member adapted to engage said shoulder, the body of
75 said locking member being provided with an approximately central opening forming a key-engaging portion, and locking means for said member extending across said key-engaging portion. 80

6. The combination with a hasp, of a casing having a keyhole therein, a spring-pressed bolt located in said casing and provided with a depending shoulder, a pivoted
85 locking member adapted to engage said shoulder, the body portion of said locking member being provided with an approximately central key-engaging opening coinciding with said keyhole, and locking means
90 for said member extending across said key-engaging opening.

7. The combination with a hasp of a spring-pressed bolt provided with a forward thick-
95 ened end forming a shoulder, a pivoted locking member provided with a key-engaging notch, a forwardly-extended arm provided with a shoulder adapted to engage the thick-
100 ened portion of said bolt, and locking means for said member extending across said key-engaging notch.

8. A lock of the character described comprising a spring-pressed bolt provided with a locking shoulder, a locking member having
105 an approximately circular body provided with a key-engaging portion and a tangentially-arranged arm adapted to engage said shoulder, a pin carried by said body, and locking means engaging said pin and extending across said key-engaging
110 portion.

9. A lock of the character described com- 110
prising a spring-pressed bolt provided with a shoulder at one end, a locking member comprising an approximately circular body provided with a tangentially-arranged arm
115 adapted to engage said shoulder, a pin carried by said body, and tumblers engaging said pin.

10. A lock of the character described comprising an approximately circular, pivoted
120 locking member having a central opening forming a key-engaging portion, said body being provided with a tangentially-arranged locking-arm, tumblers engaging said body at a point opposite said locking-arm, and a lock-
125 ing-bolt reciprocating across the face of said locking member and tumblers, said locking-bolt being provided with a thickened portion forming a shoulder to be engaged by said locking-arm.

11. A lock of the character described com- 130

prising a pivoted locking member provided with an approximately circular body having a central opening forming a key-engaging portion, a tangentially-arranged arm extending from said body, a pin secured to said body at a point opposite the pivot of the latter, tumblers arranged approximately parallel with said arm and engaging said pin, and a locking-bolt reciprocating across the face of said locking member and tumblers, said locking-bolt being provided with a thickened portion forming a shoulder to be engaged by said arm.

12. A lock of the character described comprising an approximately circular, pivoted locking member having a central opening provided with inclined edges forming a key-engaging notch, said body being provided with a tangentially-arranged locking-arm, a pin secured to said body adjacent said notch, tumblers arranged parallel with said arm and engaging said pin, said tumblers extending across said notch, and a locking-bolt reciprocating across the face of said locking member and tumblers, said locking-bolt being provided with a thickened portion forming a shoulder to be engaged by said arm.

13. A lock of the character described comprising a locking member provided with a central opening forming a key-engaging por-

tion, said member being provided with a tangentially-arranged shouldered locking-arm, tumblers arranged approximately parallel with said arm and engaging said body, and a locking-bolt mounted to reciprocate across the face of said locking member, said bolt having a thickened portion forming a shoulder to be engaged by the shouldered portion of said arm.

14. A lock of the character described comprising a pivoted locking member provided with an arm or extension and a central key-engaging portion, tumblers extending across said key-engaging portion and approximately parallel with said arm or extension, and a spring-pressed bolt formed of a plate provided with a depending shoulder at one end to be engaged by said arm or extension, the opposite end of said bolt being provided with an offset, whereby the bolt spans the space occupied by the locking member and tumblers and reciprocates across the face of said locking member and tumblers.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

PETER GRABLER.

Witnesses:

H. A. WANGERIEN,
PAUL D. JONES.