

No. 814,821.

PATENTED MAR. 13, 1906.

W. H. WOOLUMS.
COIN RECEPTACLE.
APPLICATION FILED AUG. 21, 1905.



Fig. 1.

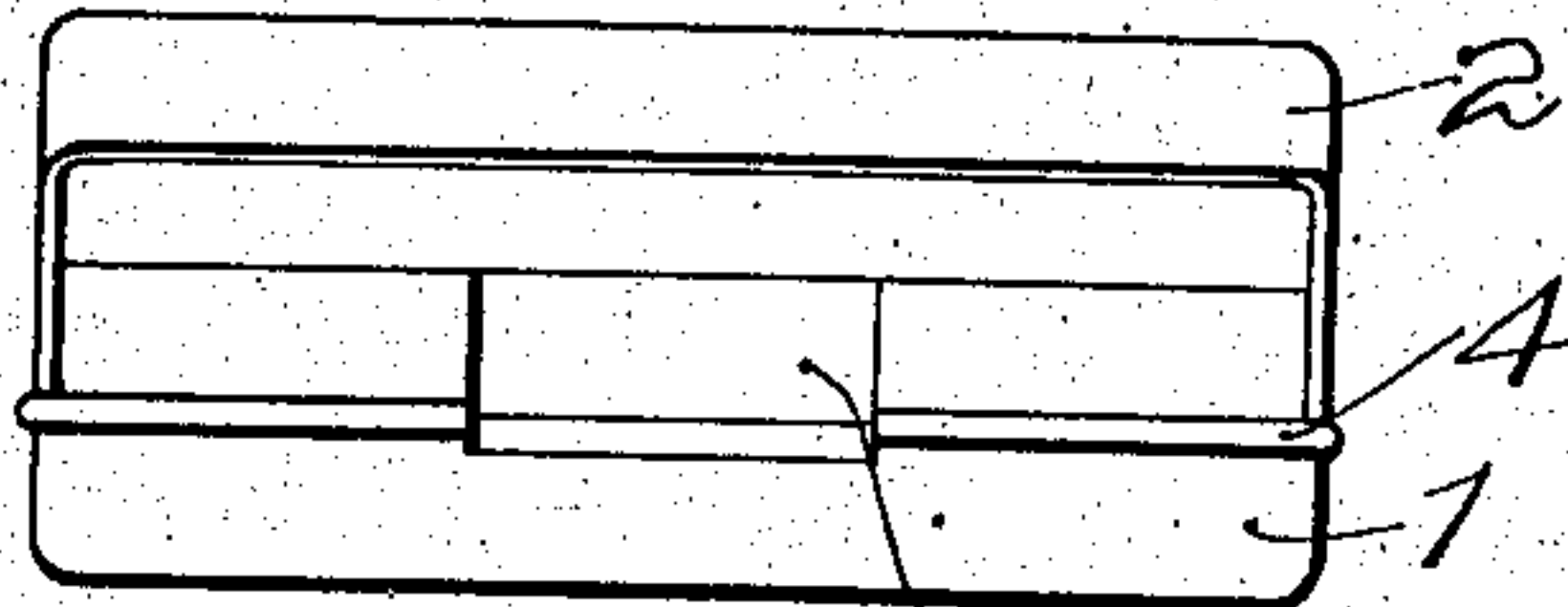


Fig. 2.

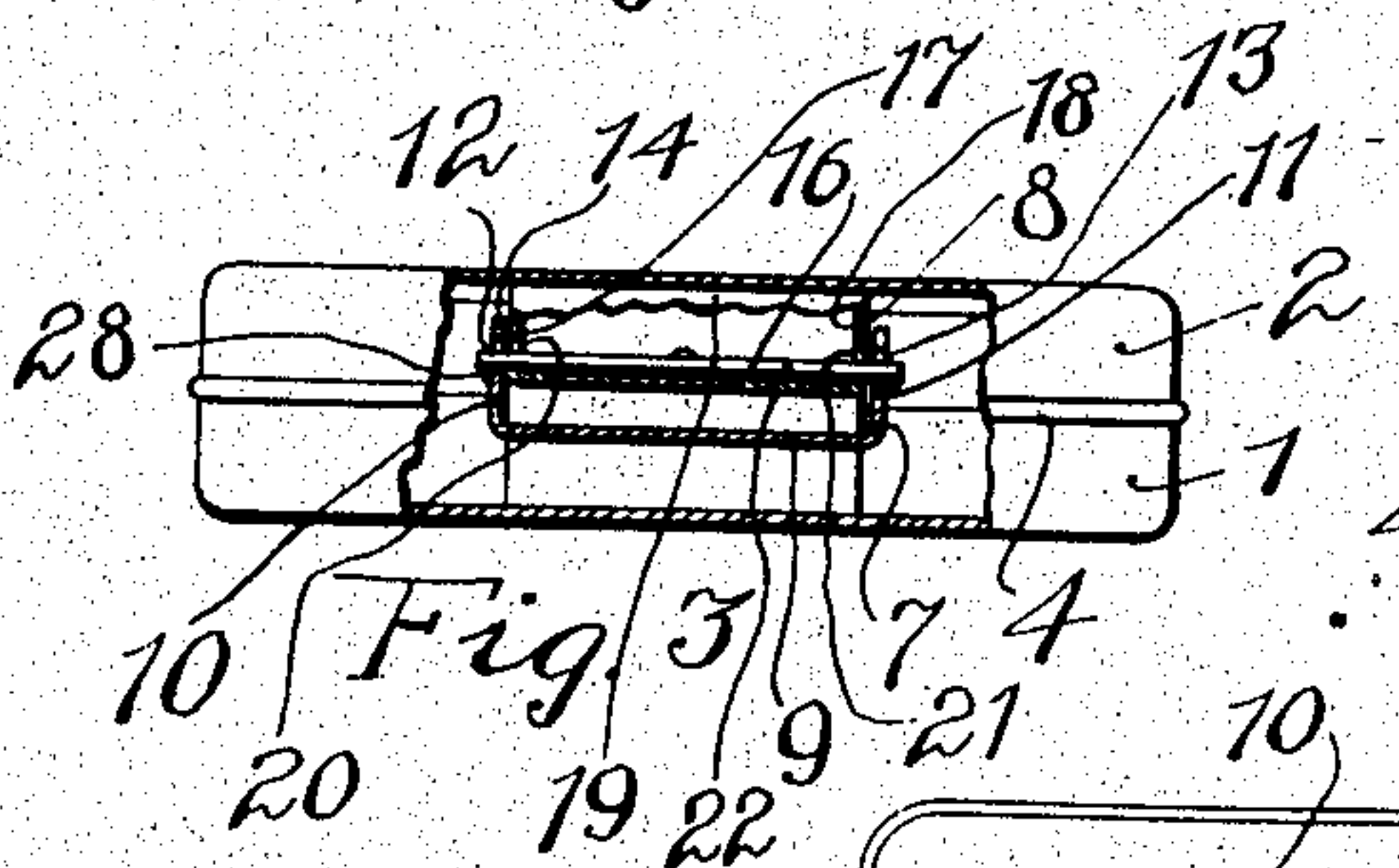


Fig. 3.

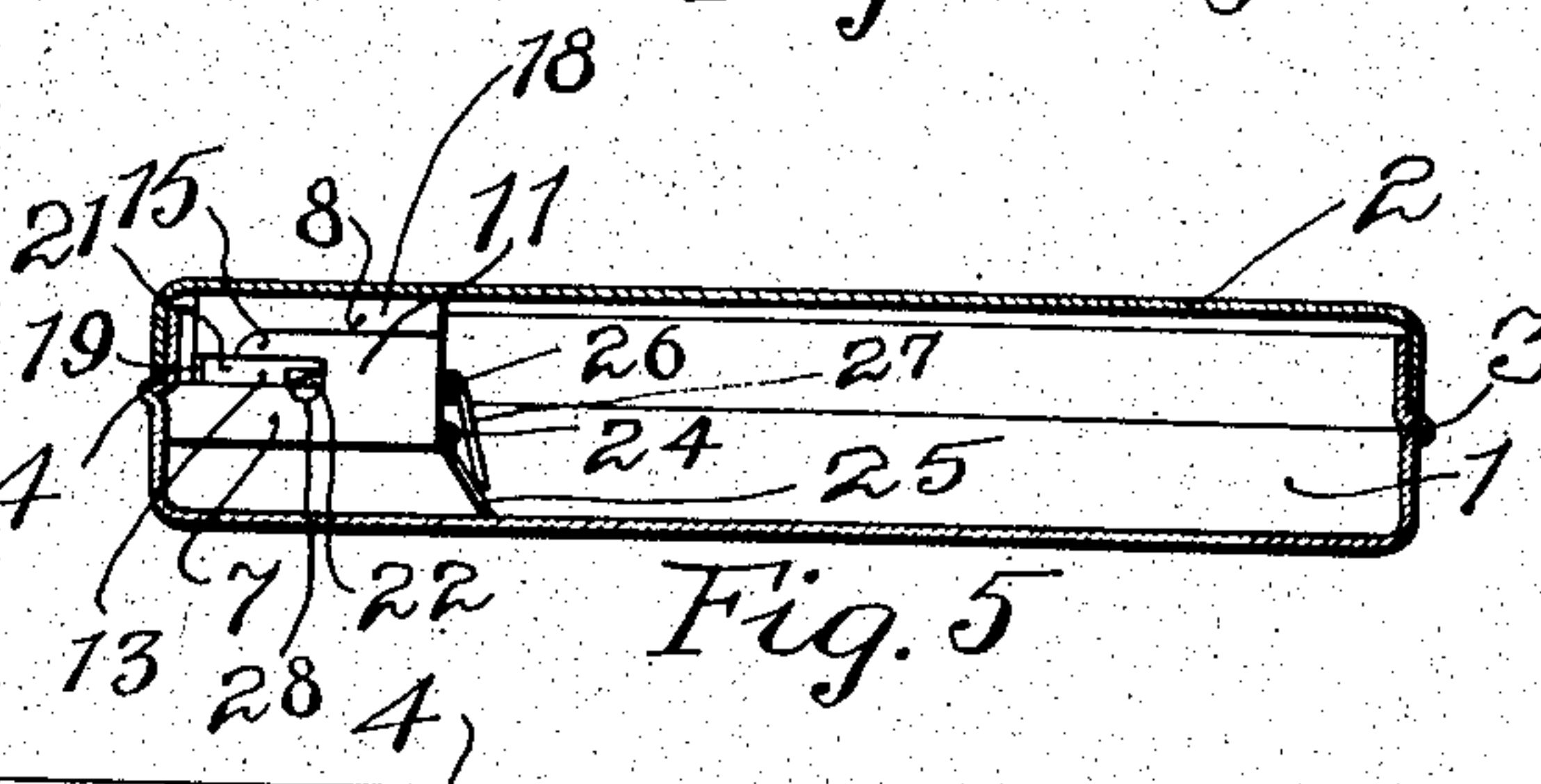


Fig. 5.

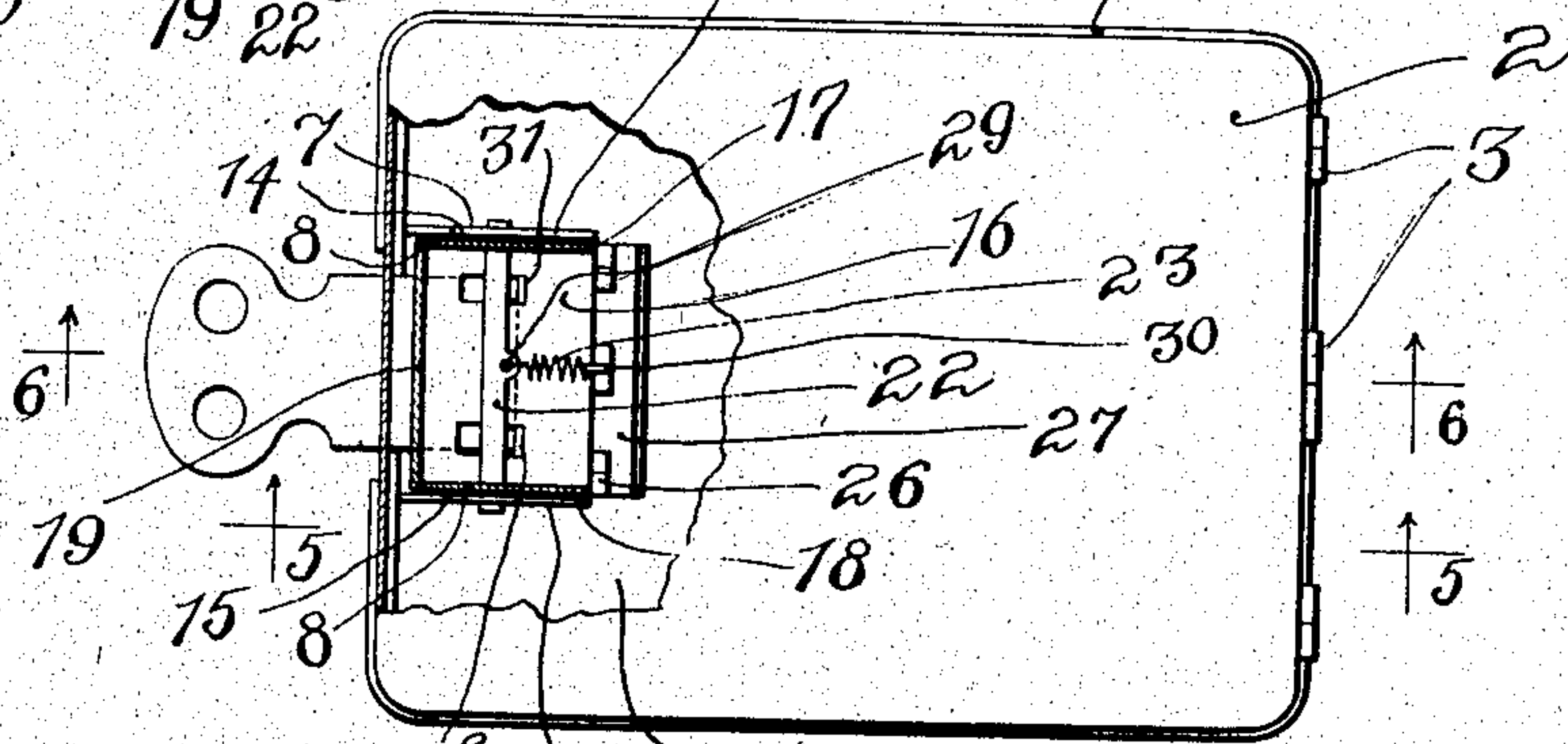


Fig. 4.

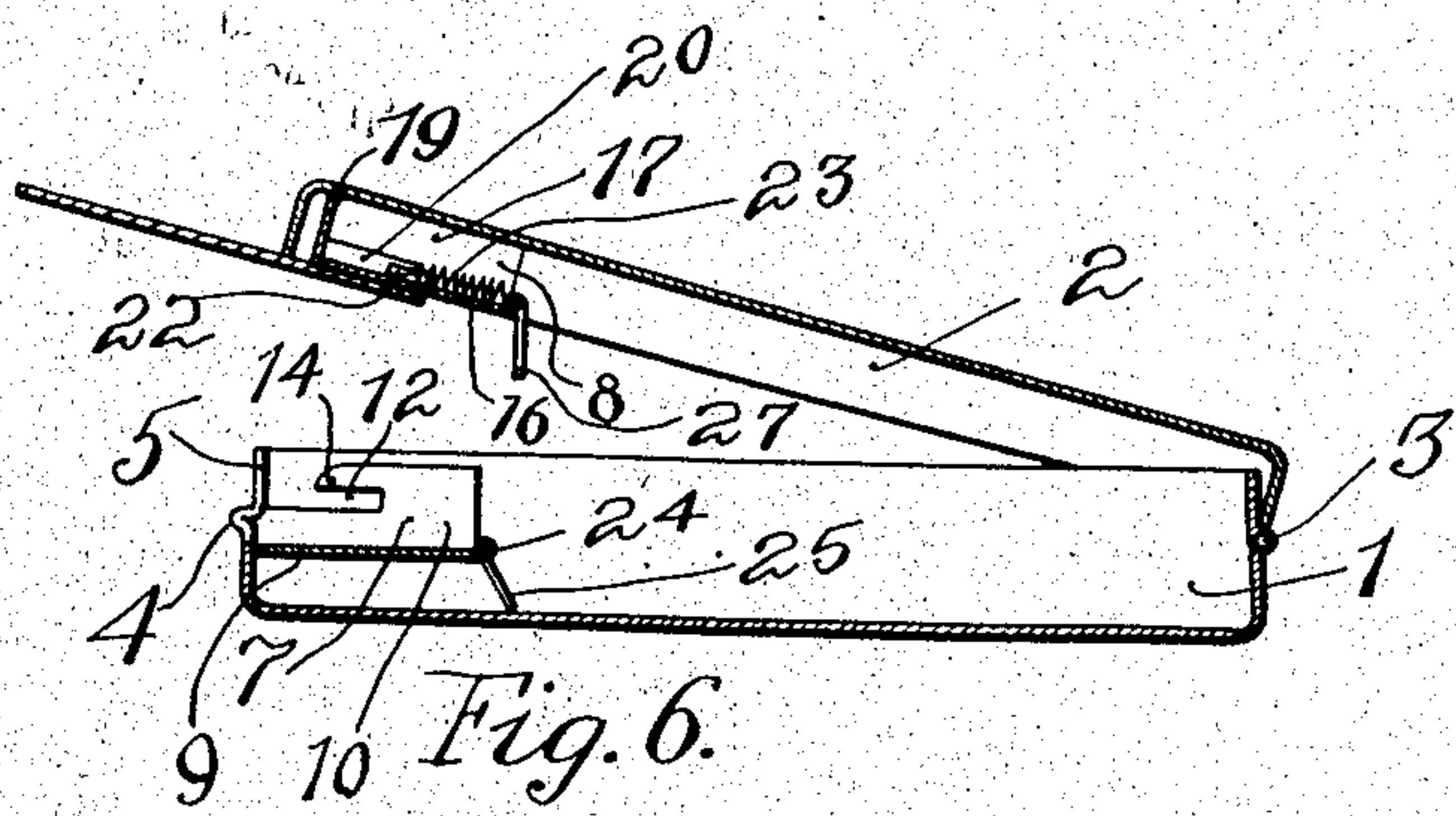


Fig. 6.

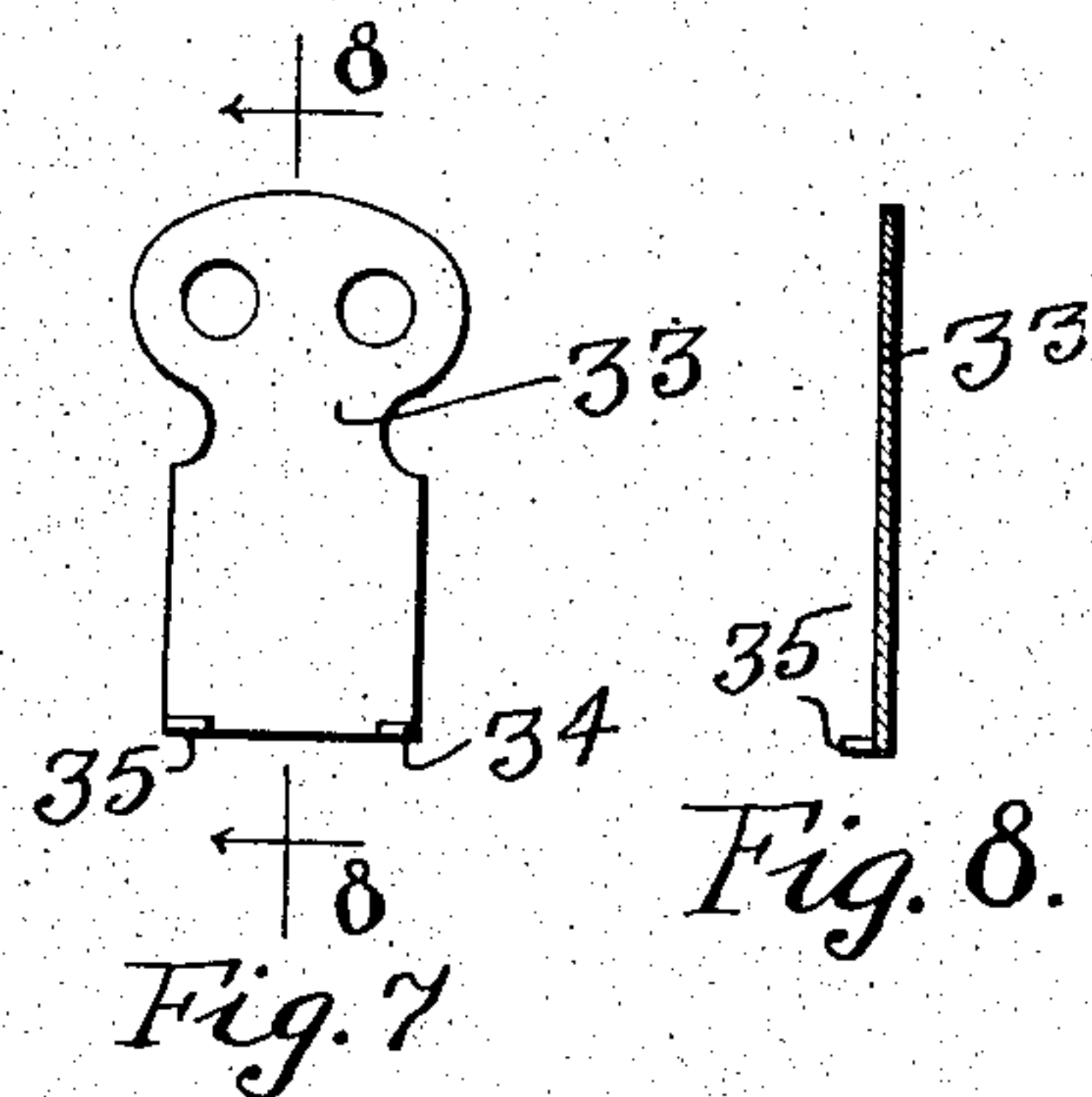


Fig. 7.

Fig. 8.

WITNESSES:

Arthur H. Boettcher
John Stahr.

Inventor

William H. Woolums
By Charles A. Brown
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM H. WOOLUMS, OF CHICAGO, ILLINOIS, ASSIGNOR TO SUPERIOR BANK COMPANY, OF COOK COUNTY, ILLINOIS, A CORPORATION OF ILLINOIS.

COIN-RECEPTACLE.

No. 814,821.

Specification of Letters Patent.

Patented March 13, 1906.

Application filed August 21, 1905. Serial No. 274,994.

To all whom it may concern:

Be it known that I, WILLIAM H. WOOLUMS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Coin-Receptacles, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to money-receptacles or savings-banks into which coins may be readily dropped or slipped through the inlet-opening, but automatically prevented from being removed from this opening and only removed from the bank upon opening thereof by a key or other lock mechanism.

The receptacle or bank of my invention and the novel features thereof will be best understood by reference to the accompanying drawings, in which—

Figure 1 is an end view of the bank, showing the inlet-opening. Fig. 2 is an end view thereof, showing the bank partly opened and showing the arrangement of the inlet-opening. Fig. 3 is an end view of the bank, part of the cover being broken away to reveal parts of the locking mechanism. Fig. 4 is a top view of the bank, part of the cover being removed to show the locking mechanism and the manner of engagement of a key therewith. Fig. 5 is a sectional view taken on line 5 5 of Fig. 4. Fig. 6 is a sectional view taken on line 6 6 of Fig. 4, the cover being partially raised. Fig. 7 is a plan view of form of key which may be employed, and Fig. 8 is a sectional view taken on line 8 8 of Fig. 7.

The bank is rectangular and consists of the body member 1 and the cover 2, hinged thereto by hinge mechanism 3 at one end thereof. The body portion is surrounded by a bead 4, so that when the cover is closed this bead will extend symmetrically around the central line of the bank, thus giving a good appearance, besides forming an abutment for the edge of the cover. The body part and cover may both be stamped integrally from sheet material—such as tin, for instance. At the front end of the body part and at the upper edge thereof is cut the slot 5, which is partly closed when the cover is shut, there being then left a thin slot 6, through which coins may be dropped. The lock mechanism consists of the catch-frame 7 and the lock-frame

8, secured, respectively, to the body and cover parts. The catch-frame may be stamped integrally from sheet material and consists of the base-wall 9 and the side walls 10 and 11, and in the side wall 10 is a slot 12, and in the side wall 11 is a slot 13, these slots being arranged opposite each other, and the portions over the slots are cut away and shaped to form detents 14 and 15. The lock-frame may also be stamped integrally from sheet material and consists of the base-wall 16; the side walls 17 and 18, and the front wall 19, which form a rectangular compartment. Slots 20 and 21 are cut, respectively, in the side walls 17 and 18, through which slots the ends of the locking-bar 22 extend. Extending between the center of this locking-bar and secured to some point of the locking-frame or cover is a spiral spring 23, whose tendency is to maintain the ends of the locking-bar against the rear of the slots 20 and 21.

The detents 14 and 15 are rounded downwardly toward the entrance of the slots 12 and 13, and upon closure of the cover the ends of the locking-bar engage these sloping surfaces, and upon pressure of the cover toward final closure the locking-bar is drawn forwardly until the ends enter the slots 12 and 13, the locking-frame at the same time passing between the side walls 14 and 15 of the catch-frame. The bank will now be locked and cannot be opened until the bar is withdrawn to release the ends thereof from the detents 14 and 15. The base-wall of the catch-frame may be continuous with the lower edge of the entrance-opening 6, and the base-wall of the locking-frame may be continuous with the upper end of the entrance-opening when the cover is closed, these walls, with the side walls 7 and 8, then forming a passage-way for the coins. At the rear edge of the base-wall of the catch-frame may be provided pivot-bearings 24, stamped integrally therewith, to which is pivoted a trap-door 25. Likewise the pivot-bearings 26 may be stamped integrally with the base-wall of the locking-frame and a trap-door 27 pivoted thereto. These trap-doors swing loosely, and when the bank is closed and in position with the cover on top, as shown in Fig. 5, the trap-door 25 will be down and the trap-door 27 will also be down and will close the inner end of the entrance passage-way, and any coins dropping toward the passage-way will

strike the trap-door 27 and will therefore be deflected from the passage-way. If the box is inverted, the trap-door 27 will fall to the otherside and the trap-door 25 will fall before the passage-way opening, and the coins will again be deflected and prevented from escape. Thus at all times either one of these trap-doors is in position before the entrance passage-way to prevent escape of the coins.

10 The locking-bar may also be stamped from sheet material, as best shown in Fig. 4, and the edges which engage with the detents of the catch-frame may be beveled, as shown. This bar at the ends may also be provided

15 with extensions 28, which engage the side walls 10 and 11 to prevent lateral displacement of the bar. At the center of the bar is the small hole 29 for receiving the end of the spring 23, whose other end may conveniently

20 be secured to the pivot-rod 30 of the trap-door 27.

I shall now describe the means for unlocking the box. As best shown in Fig. 4, the base-wall of the locking mechanism is provided with rectangular openings or slots 31 and 32, leading into the lock-frame compartment and disposed across the locking-bar. The key (best shown in Figs. 7 and 8) consists of the body part 33, provided at its ends

30 with the extensions 34 and 35. The end of the key may pass through the entrance-opening 6 and the extensions 34 and 35 brought through the slots 31 and 32 to the rear of the locking-bar, and a straight pull upon the key

35 will bring the locking-bar ends forwardly beyond the detents 14 and 15, whereupon the cover may be opened, the key, besides releasing the bar, serving also as a handle for the cover, and when the cover has been raised

40 the key can be readily removed. This locking mechanism cannot very readily be opened by objects such as button-hooks, knives, or the like usually carried about the person; but a more or less specially-shaped key arrangement with two prongs or extensions is

45 necessary. If a single hook, wire, or other object were inserted through one of the slots, only one end of the locking-bar would be disengaged from its detent. The other end

50 of the bar, however, would be more firmly held below its detent by the increased tension of the spring 23, and the bank could not be opened. The length of the slots 31 and 32 is also limited, so that a straight forward

55 pull on the key is necessary to simultaneously disengage both ends of the bar. I thus provide a coin-receptacle or savings-bank of very simple and inexpensive construction into which coins may be readily dropped,

60 but from which the coins are automatically blocked against escape and in which the unlocking mechanism is such that it cannot be picked and opened with ordinary pulls or appliances, but requires special key mechanism,

65 which key mechanism, however, is extremely

simple and readily stamped integrally from sheet material.

Modifications within the scope of the claims may readily be made in the construction and arrangement of the parts, and I do not, therefore, wish to be limited to this exact arrangement shown.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a coin-receptacle or savings-bank, 75 the combination with a body part having a slot through a wall thereof for the entrance of coins, of a cover hinged thereto, a detent disposed within the body part at each side of said entrance-slot, a locking-bar supported at 80 the interior on the cover, a spring engaging between the center of said locking-bar and a stationary part of the cover, the ends of said bar being adapted upon engagement of the cover with the body part to be engaged by 85 the detents and to be thereafter held in locking engagement with the detents by means of said spring, and a key adapted for insertion through the entrance-opening for releasing said bar from the detents whereby said cover 90 may be opened.

2. In a coin-receptacle or savings-bank, the combination with a body part having a slot in one wall thereof for the entrance of coins, of a cover hinged thereto, a detent- 95 frame secured within the body part behind the entrance-opening, detents on said frame, a locking-frame secured within the cover and adapted to fit within the detent-frame upon closure of the cover, a locking-bar within said 100 locking-frame, and a spring engaging an intermediary point of the locking-bar and said frame, the ends of said locking-bar being adapted for engagement in the detents upon closure of the cover and to be thereafter held 105 in locking engagement by means of said spring, there being openings into said locking-frame near said locking-bar whereby said locking-bar may be engaged by a key inserted through the entrance-opening and removed 110 from locking engagement with the detents.

3. In a coin-receptacle or savings-bank, the combination with a body part having a slot through a wall thereof for the entrance of coins, of a cover hinged thereto, a detent- 115 frame within the body part, detents on said frame, one at each side of the entrance-opening, a locking-frame in the cover of the receptacle, said locking-frame being adapted to engage within the detent-frame upon closure of 120 the cover to form an entrance passage-way for coins entering through the slot, a locking-bar within the locking-frame, the ends of said bar extending outwardly from the sides of said locking-frame, and a spring engaging 125 said locking-bar and said locking-frame, the ends of said locking-bar being moved into locking engagement with the detents upon closure of the cover and held in locking engagement by means of said spring, said lock- 130

ing-bar being adapted to be engaged by a key entering through said entrance-slot to be withdrawn from locking engagement with the detents to allow opening of the cover.

5 4. In a coin-receptacle or savings-bank, the combination with a body member stamped integral from sheet material and having a slot through a wall thereof, a cover hinged there-
10 to, a U-shaped detent-frame stamped of sheet material and secured within the body part and extending rearwardly from the entrance-slot, detents provided in the side walls of said frame, one at each side of the entrance-slot, an inclosed locking-frame stamped integral
15 of sheet material and secured within the cover, said locking-frame being adapted upon closure of the cover to fit within the detent-frame and to form therewith a passage-way toward the interior of the box from the en-
20 trance-slot, a locking-bar within the locking-frame, the ends of said locking-bar extending from the locking-frame, and a spring secured to the middle of the locking-bar and to the locking-frame, closure of the box causing the
25 locking-bar ends to form locking engagement with the detents and to be held in such locking engagement by the action of said spring, there being openings through said locking-frame through which locking members of a
30 key may enter to engage the locking-bar and to cause unlocking engagement thereof from the detents, said key entering through the entrance-opening and passage-way.

5 5. In a coin-receptacle or savings-bank, the combination with a body member stamped integral of sheet material and having an inlet-slot through one wall thereof, of a cover part hinged thereto and also stamped integral of sheet material, a locking-frame within
40 the cover part near the inlet-opening, a U-shaped locking-frame stamped integral of sheet material and disposed within the cover behind the inlet-opening, detents on said frame, an inclosed locking-frame stamped en-
45 tirely of sheet material and disposed within the cover part, said locking-frame being adapted to fit within the detent-frame upon closure of the cover to form a passage-way for the coins to the interior of the receptacle, said
50 locking-frame having slots in its sides, a locking-bar within the locking-frame having its ends extending through said slots, and a spring engaging said locking-bar at an intermediary point and connected with the locking-frame,
55 said locking-bar ends being adapted upon closure of the box to pass into locking engagement with the detent and to be held in locking engagement therewith by means of said spring, there being openings through the base-
60 wall of the locking-frame below the locking-bar, and a key adapted for insertion through the entrance-opening or passage-way and having locking members for passing through the openings in said locking-frame for engage-
65 ment with the locking-bar, actuation of the

key causing the locking-bar to be removed from locking engagement with the detents whereby the receptacle may be opened.

6. In a coin-receptacle or savings-bank, the combination with a body part, of a cover
70 part hinged thereto, said body part having a notch cut in the upper edge of one wall thereof to form an entrance-slot when the cover is closed, associated locking mechanism within the cover part and body part adapted to au-
75 tomatically lock the cover upon closure thereof, and a key adapted for insertion through said slot and into engagement with the locking mechanism to unlock said mechanism, said key serving also as a means for raising
80 the cover after unlocking thereof.

7. In a coin-receptacle or a savings-bank, the combination with a body part, of a cover part hinged thereto, there being a slot
85 through one side of the receptacle for the entrance of coins, lock mechanism at the interior of the cover part, said locking mechanism being disposed before said slot to lock the cover to the body part and adapted to be
90 unlocked by a key inserted into said slot, moved upwardly and pulled outwardly.

8. In a coin-receptacle or savings-bank, the combination with a body part, having a slot through one wall for the entrance of
95 coins, of a cover hinged thereto, a detent-frame secured within the body part behind the entrance-opening, detents extending from the side walls of the detent-frame, a lock-frame secured within the cover and adapted to fit within said detent-frame upon
100 closure of the cover, a locking-bar within the locking-frame, the ends of the said locking-bar extending through the side walls of said locking-frame and adapted upon closure of the receptacle to engage the detents of the
105 detent-frame to lock the receptacle.

9. In a coin-receptacle or savings-bank, the combination with a body part, having a slot through one wall for the entrance of
110 coins, of a cover hinged thereto, a detent-frame secured within the body part behind the entrance-opening, detents extending from the side walls of the detent-frame, a lock-frame secured within the cover and adapted to fit within the detent-frame upon
115 closure of the cover, a locking-bar extending through the side walls of said locking-frame and adapted upon closure of the receptacle to engage the detents of the detent-frame to lock the receptacle, said bar being yieldingly
120 pivoted at a point between its ends.

10. In a coin-receptacle or savings-bank, the combination with a body part, having a slot through one wall for the entrance of
125 coins, of a cover hinged thereto, a detent-frame secured within the body part behind the entrance-opening, detents extending from the side walls of the detent-frame, a lock-frame secured within the cover and adapted to fit within said detent-frame upon
130

closure of the cover, a locking-bar extending through the side walls of said locking-frame and adapted upon closure of the receptacle to engage the detents of the detent-frame to lock the receptacle, a spring pivoted to the center of the bar for retaining said bar in engagement with the detents and a key having actuating extensions, there being openings through the locking-frame in register with the bar for receiving the actuating extensions upon insertion of the key in the slot, withdrawal of the key causing said bar to be released from said detents against the action of said spring.

11. In a coin-receptacle or savings-bank, the combination with a body part, having a slot through one wall for the entrance of coins, of a cover hinged thereto, a detent-frame secured within the body part behind the entrance-opening, detents extending from the side walls of the detent-frame, a lock-frame secured within the cover and adapted to fit within said detent-frame upon

closure of the cover, a locking-bar extending through the side walls of said locking-frame and adapted upon closure of the receptacle to engage the detents of the detent-frame to lock the receptacle, a spring pivoted to the center of the bar for retaining said bar in engagement with the detents and a key having actuating extensions, there being openings through the locking-frame in register with the bar for receiving the actuating extensions upon insertion of the key in the slot, withdrawal of the key causing said bar to be released from said detents against the action of said spring, said key after disengagement of the locking-bar from the detents serving also as a means for raising the cover.

In witness whereof I hereunto subscribe my name this 18th day of August, A. D. 1905.

WILLIAM H. WOOLUMS.

Witnesses:

CHARLES J. SCHMIDT,
HARVEY L. HANSON.