

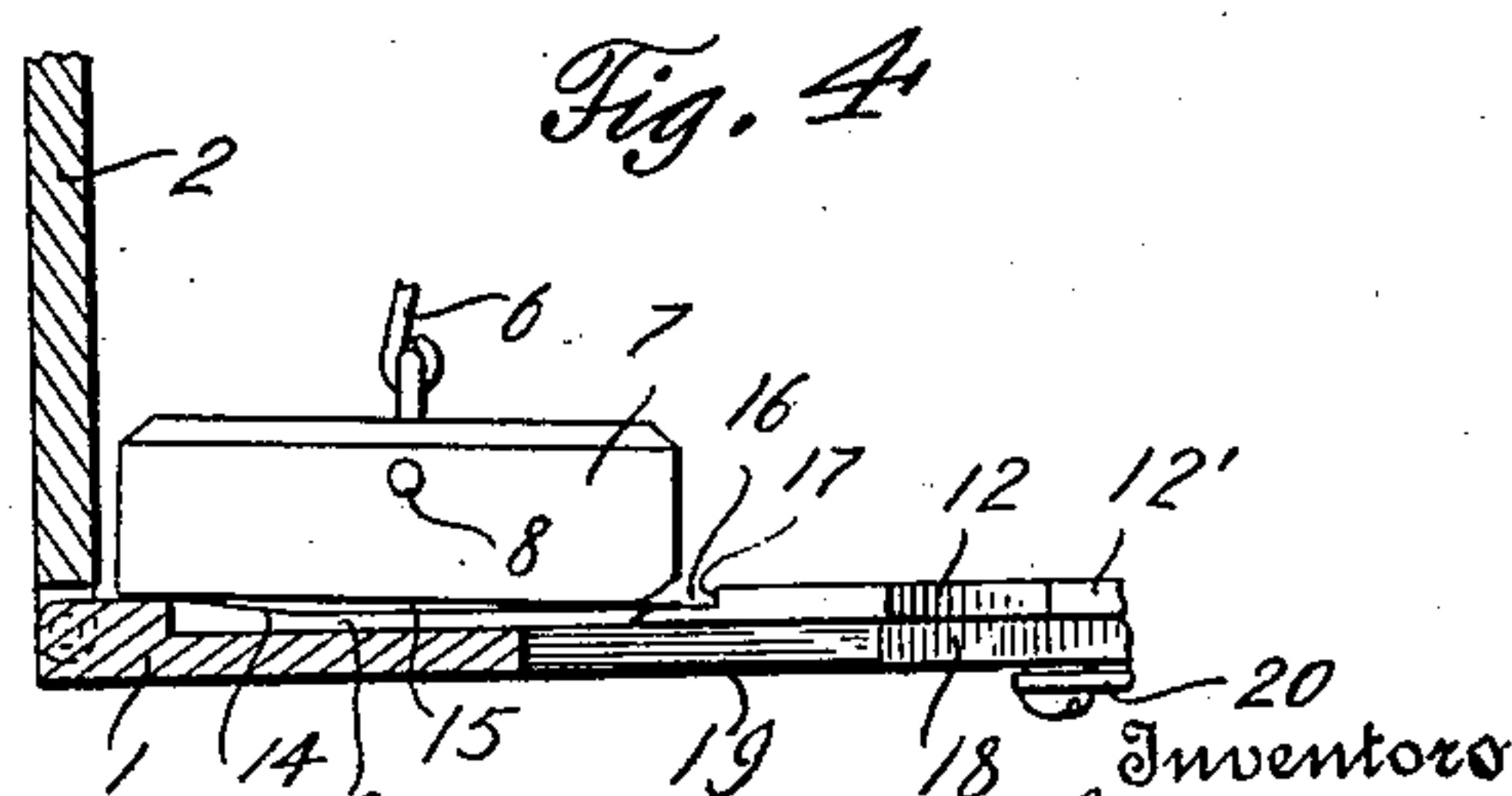
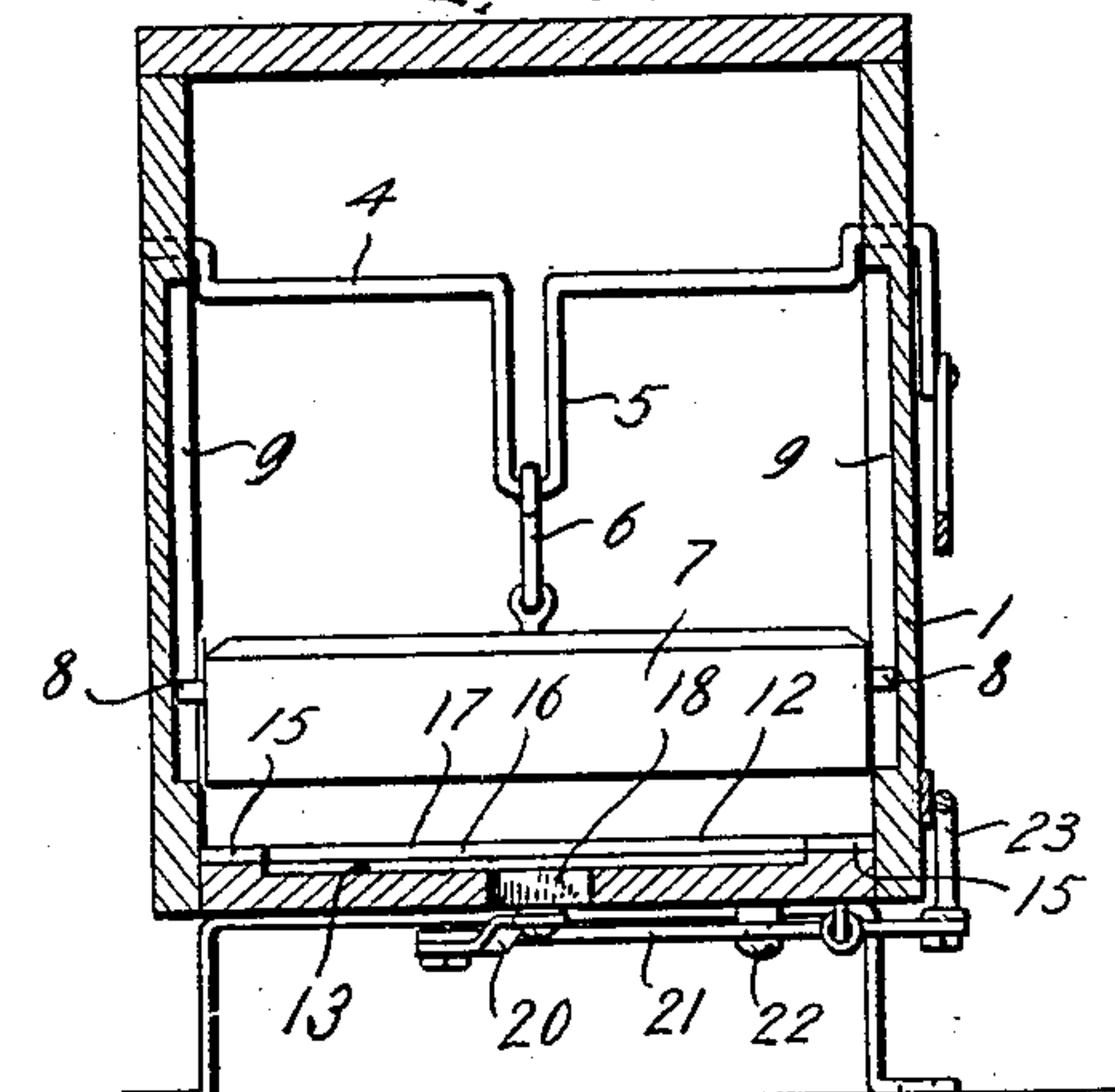
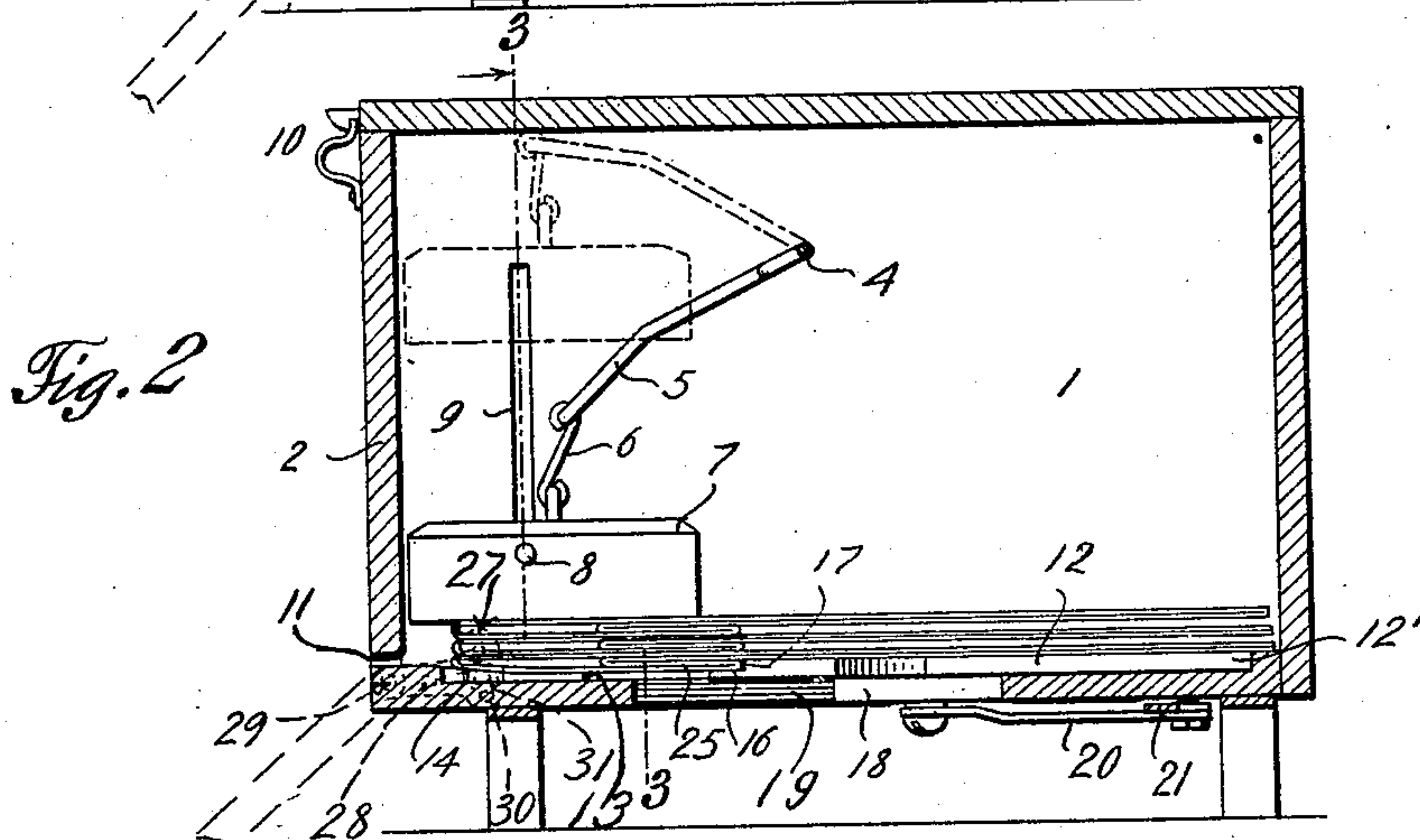
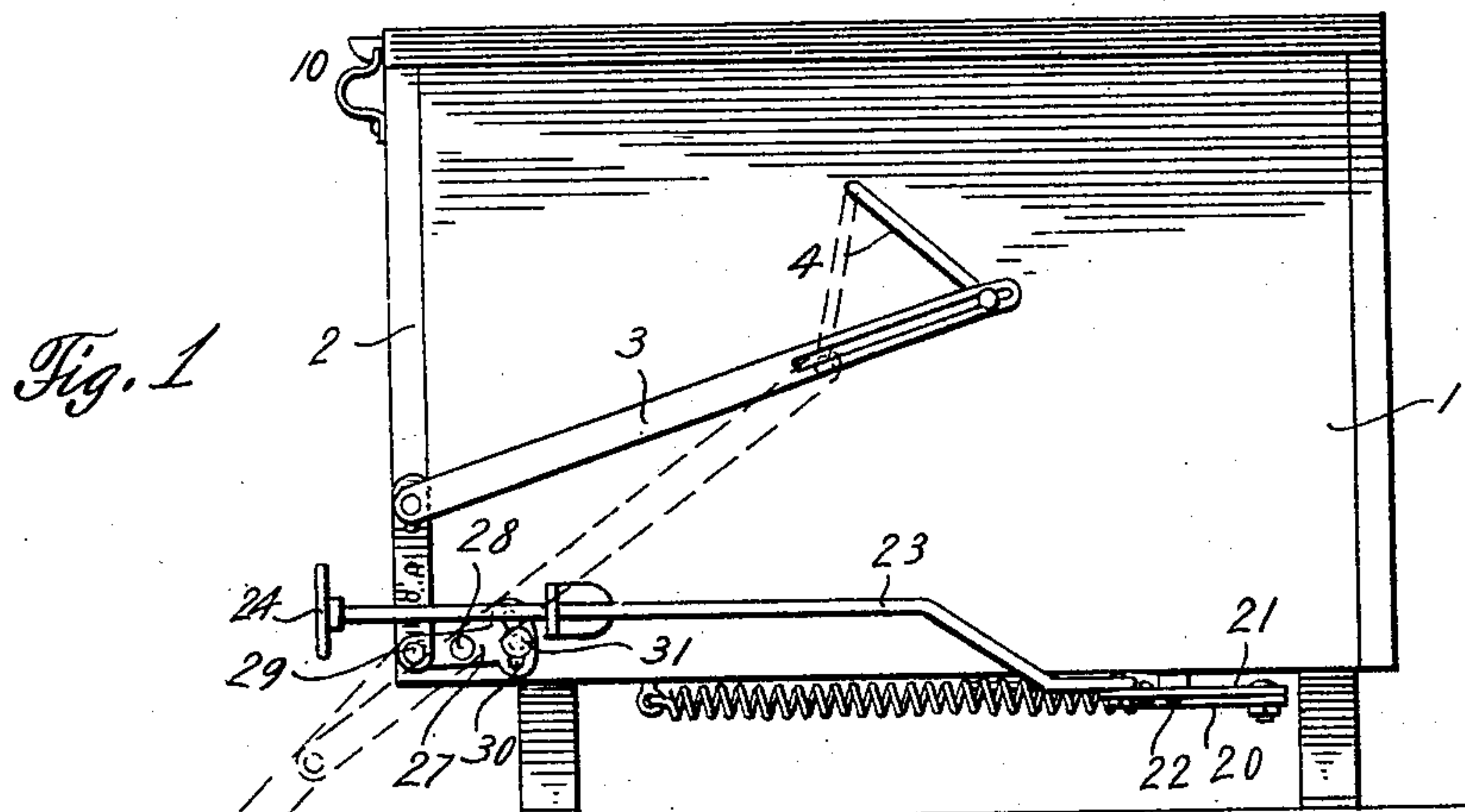
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PAPER BAG HOLDER.

APPLICATION FILED JUNE 23, 1910.

969,626.

Patented Sept. 6, 1910.



Witnesses

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Fig. 3

By

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UNITED STATES PATENT OFFICE.

DAVID R. HOLMES AND RUFUS B. CROZIER, OF DUNNEGAN, MISSOURI.

PAPER-BAG HOLDER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, DAVID R. HOLMES and RUFUS B. CROZIER, citizens of the United States, residing at Dunnegan, in the county of Polk and State of Missouri, have invented certain new and useful Improvements in Paper-Bag Holders, of which the following is a specification.

The primary object of this invention is to provide a handy construction of holder or casing adapted to contain paper bags, and embodying conveniently operable mechanism whereby to facilitate withdrawal of the bags singly from the holder.

A device of the above class is highly desirable for use in grocery stores and other places where paper bags are used in quantities.

For a full understanding of the invention reference is to be had to the following detailed description and accompanying drawings, in which—

Figure 1 is a side elevation of a device or paper bag holder embodying the invention; Fig. 2 is a vertical, longitudinal sectional view, the door of the holder or casing being shown open in dotted lines to bring out clearly the arrangement of the parts connected therewith, when adjusted preliminary to filling the holder with bags; Fig. 3 is a transverse sectional view on the line 3—3 of Fig. 2; and Fig. 4 is a fragmentary sectional view bringing out clearly the co-operation of the follower with the ejector slide, when the contents of the holder have become exhausted.

Throughout the following description and on the several figures of the drawings similar parts are referred to by like reference characters.

Referring to the drawings and specifically describing the invention 1 denotes a casing which comprises the body of the holder, said casing being of box like form and provided at its outer end with a hinged door 2, the latter being movable outwardly and downwardly in order to permit of access to the interior of said casing. At one of its vertical edges the door 2 is connected by a rod 3 with a shaft 4 mounted transversely in suitable bearings in the opposite sides of the casing, said shaft having a centrally arranged crank arm 5 connected loosely by a link 6 with a follower 7 arranged in the casing adjacent to the shaft 4. At its opposite ends the follower has projections 8 op-

erating in grooves 9 in the opposite sides of the casing 1 to cause the follower to move in a proper vertical path. It is contemplated that the follower 7 shall be of sufficient weight to gravitate downwardly in the casing and the rod 3 is slotted at 3^a to permit movement of the follower downwardly without operating the connection or rod 3. Ordinarily the door 2 will be held closed by a suitable catch 10 carried thereby.

It is contemplated that the present invention shall be used in connection with paper bags having box folds at the bottom portions thereof, certain ejector mechanism of the invention including an ejector slide capable of engaging the box fold of the lowermost bag in the casing 1 to forcibly move said bag into a position wherein it will project outwardly from the casing through a withdrawal slot 11 formed by spacing the hinged edge of the door 2 from the lower bottom portion of the casing 1. The said ejector mechanism includes an ejector-slide 12 mounted for movement in a recess in the bottom of the casing 1, the portions of the bottom of the casing on opposite sides of the recess 13 being formed with inclines 14 terminating in notches 15. The slide 12 is formed at its operating edge with a transverse groove 16 provided with a fold engaging flange 17 adapted to directly engage with the inner portion of a fold of a bag as said bag is forced downwardly on the inclines 14 by the weight of the follower 7. The ejector-slide 12 is of somewhat T-form having an extension 12' at its inner end, the latter being provided with a downwardly extending projection 18 passing through a slot 19 in the bottom of the casing 1. The projection 18 is connected by a link 20 with a lever 21 on the bottom of the casing 1, said lever being pivoted between its ends as shown at 22 and being operable by a push rod 23 arranged at one side of the casing and connected with the outer end of the lever 21. The rod 23 extends to a point permitting it to slightly project from the outer door end of the casing 1 and has a finger piece 24 to facilitate the manipulation of the same.

It will be evident that by pushing upon the rod 23 the ejector-slide 12 will be forced outwardly, and since the flange 17 of said slide normally engages the box fold of the lowermost bag 25 in the casing 1, said bag will be projected slightly out of the casing

in a position to be conveniently grasped by the operator and entirely removed from the holder.

It will be observed that peculiar pivotal supporting means for the door is employed and the same comprises plates 27 pivoted between their ends as shown at 28 to opposite sides of the holder 1. The plates 27 are pivotally connected at one end, as shown at 29 to the lower end of the door 2, the opposite ends of the plates 27 being formed with arc-shaped slots 30 through which pass set screws 31, the latter entering the sides of the holder. By proper movement of the plates 27 about their pivotal axes 28, the door 2 may be raised and lowered a slight distance, whereby to increase or decrease the size of the withdrawal slot 11. A proper adjustment of the door is obtained by manipulation of the set screws 31 to position the plates 27.

The rod 3 is so arranged that when the door is opened into the dotted line position shown in Fig. 1, the point of pivotal connection of the rod with the door will be arranged below the dead center and hence the weight 7 will serve to hold the door in its open position while the operator places a new supply of bags in the holder.

It will be understood that the holders comprising this invention may be made in different sizes to accommodate bags of different sizes, under which conditions a number of holders may be placed one upon the other and secured together if desired. The means for adjusting the sides of the withdrawal slot 11 permits the use of the invention in connection with bags of different thicknesses as will be evident.

Having thus described our invention, what is claimed as new is:

1. A bag holder comprising a casing, the bottom of which is provided with a recess and also with inclines at opposite sides of said recess, an ejector-slide movable in the recessed portion of the bottom of the casing and formed with a flange adapted to engage the fold of a bag while resting upon the inclines aforesaid, means for actuating ejector-slide, and a follower for pressing bags downwardly upon the inclines of the bottom of the casing.

2. A paper bag holder comprising a casing, an ejector mechanism mounted therein, means for actuating said mechanism, a door

for said casing, a movable follower arranged in the casing to rest upon bags therein, and a connection between the follower and the door for actuating the follower when the door is opened.

3. A paper bag holder comprising a casing, an ejector mechanism mounted therein, means for actuating said mechanism, a door for said casing, a movable follower arranged in the casing to rest upon bags therein, a crank shaft mounted on the casing, means connecting the crank of said shaft with the follower, and a connection between said shaft and the door whereby the follower will be actuated when the door is opened.

4. A paper bag holder comprising a casing, an ejector mechanism mounted therein, means for actuating said mechanism, a door for said casing, a movable follower arranged in the casing to rest upon bags therein, a crank shaft mounted on the casing, means connecting the crank of said shaft with the follower, the last mentioned connection comprising a rod provided with a slotted portion affording a sliding connection with the crank shaft permitting movement of the follower independently of the door.

5. In a paper bag holder, the combination of a casing, ejector mechanism arranged therein, a door closing an end portion of the casing, means pivotally supporting said door so that an end of the latter is spaced from the casing to provide a bag withdrawal slot, and means for adjusting the door supporting means to vary the size of the withdrawal slot.

6. In a paper bag holder, the combination of a casing, a door closing an end of the casing, plates pivoted to opposite sides of the casing and for pivotal connection with the lower end of the door, adjusting means for positioning said plates whereby to increase or decrease the space between the lower end of the door and the bottom of the casing, and providing a bag withdrawal slot, and an ejector mechanism in the casing for ejecting bags through said withdrawal slot.

In testimony whereof we affix our signatures in presence of two witnesses.

DAVID R. HOLMES.
RUFUS B. CROZIER.

Witnesses:

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