

No. 702,685.

Patented June 17, 1902.

J. P. ADAMS.  
BAG HOLDER.

(Application filed Dec. 23, 1901.)

(No Model.)

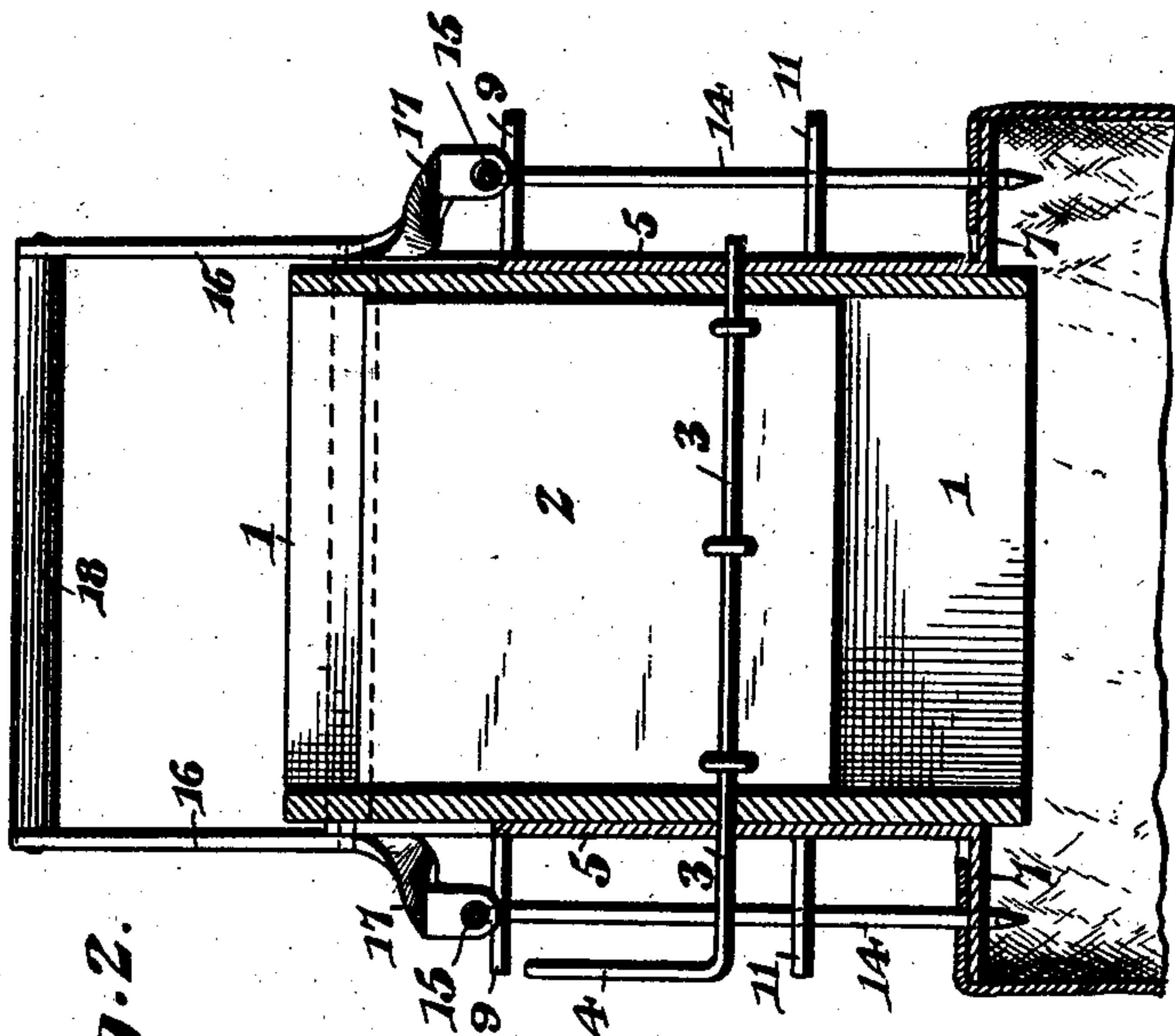


Fig. 2.

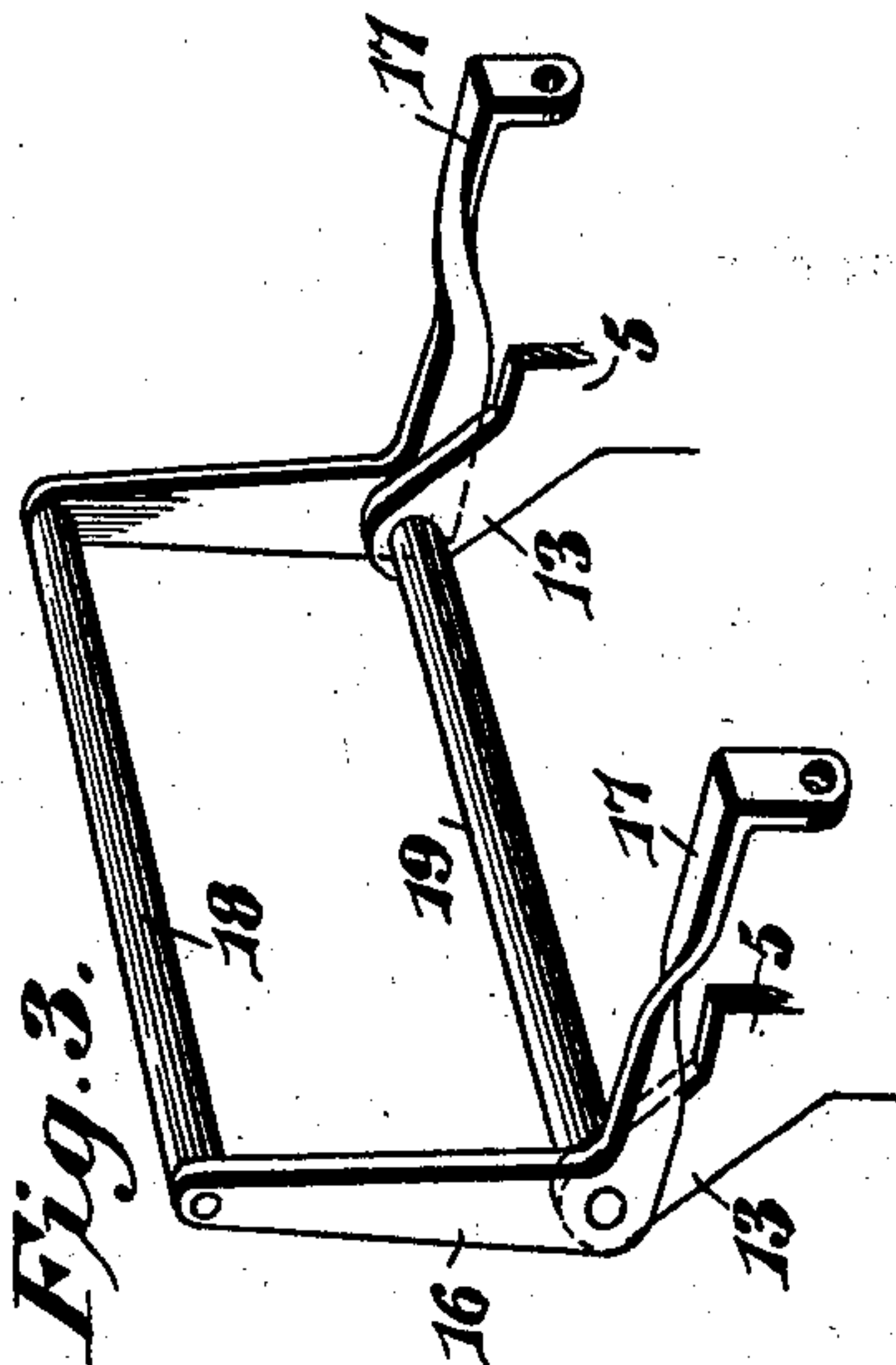
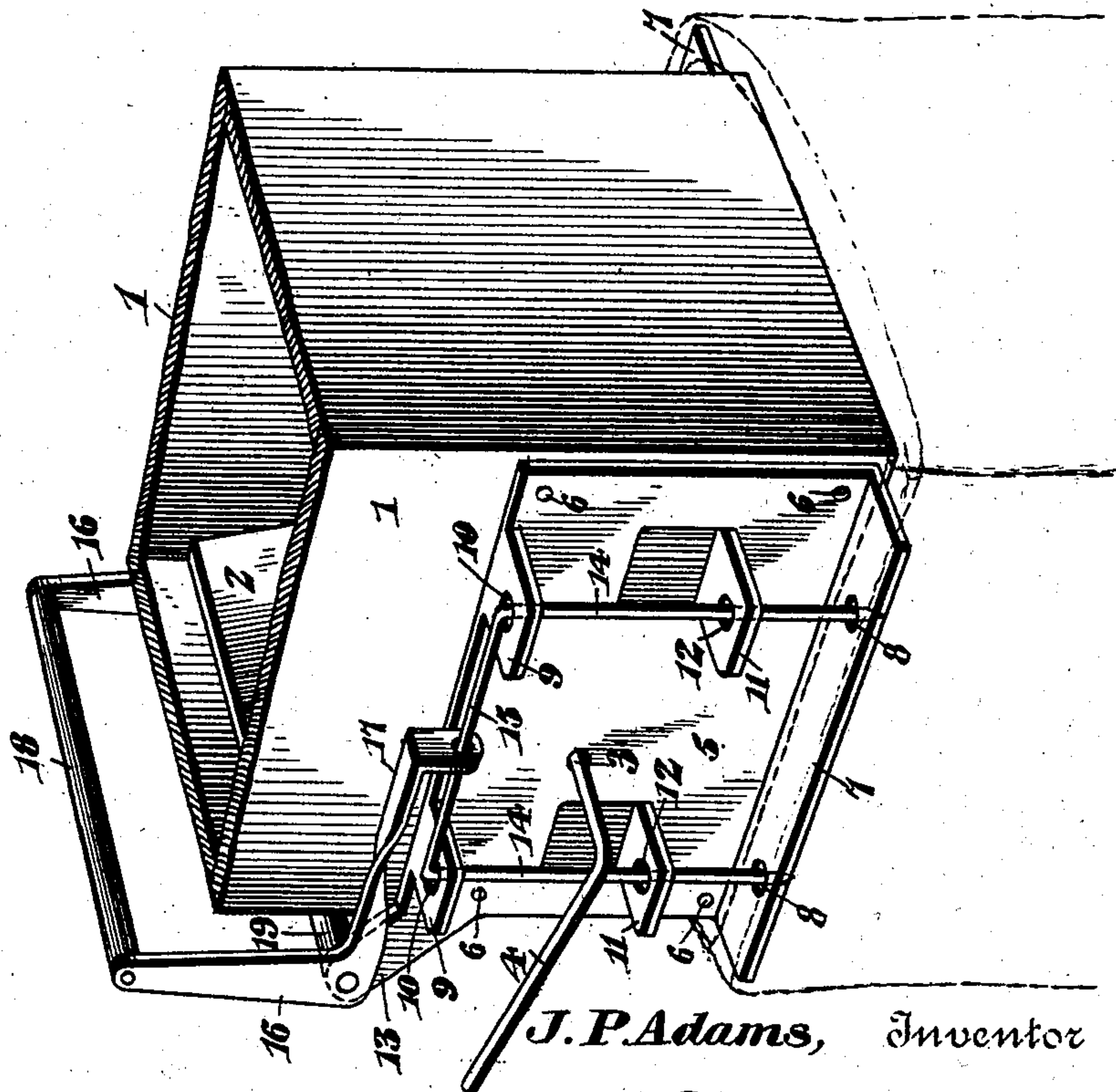


Fig. 3.

Fig. 1.



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# UNITED STATES PATENT OFFICE.

JOSEPH PARSONS ADAMS, OF GARFIELD, WASHINGTON.

## BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 702,685, dated June 17, 1902.

Application filed December 23, 1901. Serial No. 86,910. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH PARSONS ADAMS, a citizen of the United States, residing at Garfield, in the county of Whitman and State of Washington, have invented a new and useful Bag-Holder, of which the following is a specification.

This invention relates to bag-holders, and has for its object to provide improved means for holding the mouth of a bag open and in communication with the discharge end of a chute or hopper, so as to be conveniently filled therefrom. It is furthermore designed to have the device arranged so as to be conveniently applied to any ordinary chute or hopper without altering or changing the same and also arranged for convenient manipulation, so as to readily fasten and release a bag with respect to the chute or hopper.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view showing the present invention applied to a chute or hopper. Fig. 2 is a vertical cross-sectional view thereof. Fig. 3 is a detail perspective view of the means for manipulating the bag-impaling pins of the bag-holder.

Like characters of reference designate corresponding parts in all the figures of the drawings.

Referring to the accompanying drawings, 1 designates a hopper or chute for the delivery of grain or other material and is provided with an internal cut-off in the form of a vertically-rocking gate or valve 2, supported at its lower end upon a rock-shaft 3, journaled in the opposite sides of the chute and provided at one end with a crank-handle 4 for convenience in manipulating the gate to open and close the chute. These parts are common and well known, and may therefore have any preferred shape or form, as they have

been shown in the drawings to adequately illustrate the application and operation of the present form of bag-holder.

In carrying out the invention I employ two substantially duplicate members secured to opposite sides of the chute or hopper and each comprising a metallic plate 5, which is secured to the hopper by means of suitable fastenings 6, driven through the plate and into the adjacent side of the hopper. At the lower edge of the plate there is provided an outwardly-directed substantially horizontal flange 7, which extends for the entire length of the plate and is provided with a pair of longitudinally-alined perforations 8. At the upper edge of the plate there is provided a pair of outwardly-directed ears or projections 9, each of which is provided with a perforation 10, that is alined with the corresponding perforation 8 in the flange 7. There are also provided intermediate outwardly-directed ears or projections 11, which lie in vertical alinement with the upper ears and are provided with perforations 12. The intermediate ears are preferably struck from the metallic plate and the flange 7, and the upper ears are also struck or bent therefrom. At the upper rear corner of the plate there is provided an upwardly or rearwardly inclined extension or arm 13.

Working in the corresponding perforate ears are the respective vertically-disposed pins 14, the lower pointed ends of which are received in the perforations in the flange 7, and their upper ends are connected by a cross-bar 15, which normally lies across the tops of the upper ears, and thereby limits the downward movement of the pins and prevents the same from dropping through the guide-ears. It is preferable to form the pins and cross-bar integral by bending or otherwise forming the same into an inverted substantially U shape.

For raising and lowering each pair of pins there is provided an angle-lever or bell-crank lever 16, which is fulcrumed intermediately upon the outer upper end of the adjacent arm 13 and has the forward end of its lower or substantially horizontal member 17 connected to the intermediate portion of the head of the impaling-pin, so that by rocking the lever vertically the pin may be elevated, so as to draw



the opposite points thereof upwardly above the flange 7. In order that the opposite bell-crank levers may be simultaneously operated, the upper ends thereof are connected by a cross-bar 18, forming a handle for convenience in rocking the levers. The upper ends of the arms 13 are connected and braced by a cross-bar 19.

In using the device the upper ends of the levers are rocked downwardly by the manipulation of the handle 18, thereby to raise the points of the impaling-pins above the respective flanges 7, so as to permit of the mouth of a bag being placed about the lower end of the chute or hopper and drawn across the upper sides of the flanges, as plainly shown by the dotted lines in Fig. 1 and by full lines in Fig. 2 of the drawings, after which the handle is raised so as to thrust the impaling-pins downwardly and through the upper edge portion of the bag, which is engaged over the flanges, thereby securing the bag to the bottom of the chute or hopper in a convenient and effective manner. After the bag has been filled the handle is drawn downwardly, so as to raise the pins out of engagement with the bag, and thereby free the latter from the holder.

From the foregoing description it is apparent that the present device may be applied without altering or changing the chute or hopper in any manner whatsoever and may be conveniently manipulated to fasten and release a bag without exposing the operator's hands to injury.

Although it has been hereinbefore set forth that the flange 7, the ears 9 and 11, and the arm 13 are struck from the metal plate 5, it will of course be understood that these parts may be cast therewith instead of being struck from a blank of sheet metal.

What I claim is—

1. A bag-holder, comprising a chute, outwardly-directed bag-engaging flanges carried externally by opposite sides of the chute and provided with perforations, vertically-reciprocatory bag-engaging impaling-pins mounted upon the chute and working through the perforations in the flanges, and means for raising and lowering the pins.

2. A bag-holder, comprising a chute, outwardly-directed perforate flanges carried externally by opposite sides of the chute, bag-impaling pins mounted upon the chute and working through the perforations, and means mounted upon the chute for simultaneously raising and lowering the pins to project the same through and withdraw them from the perforations of the flanges.

3. A bag-holder, comprising opposite outwardly-directed perforate flanges, vertically-reciprocatory bag-impaling pins working through the perforations, opposite upstand-

ing bell-crank levers connected to the pins, and a handle connecting the bell-crank levers for simultaneous manipulation.

4. A bag-holder, comprising opposite members having outwardly-directed perforate flanges, and perforate guides located above and in vertical alinement with the perforations in the flanges, corresponding laterally-projected arms carried by the members, vertically-reciprocatory bag-impaling pins working in the respective guides and perforations of the flanges, levers fulcrumed intermediately upon the arms and connected to the adjacent pins, and a handle connecting the outer end portions of the levers for simultaneous manipulation.

5. The combination with a chute or hopper, of opposite outwardly-directed perforate bag-engaging flanges carried by the discharge end thereof, vertically-reciprocatory bag-impaling pins working through the perforations of the flanges, intermediately-fulcrumed levers connected to the pins, and a handle connecting the levers for simultaneous operation.

6. The combination with a chute or hopper, of a bag-holder comprising plates secured to opposite sides of the chute or hopper and having lower outwardly-directed perforate flanges, perforate guide-ears projected laterally outward from the plates and alined with the perforations in the flanges, lateral arms projected from the upper portions of the plates, bell-crank levers fulcrumed upon the respective arms, a handle connecting the bell-crank levers for simultaneous manipulation, and bag-impaling pins working in the perforations in the flanges and the guides and also connected to the respective levers.

7. A bag-holder, comprising opposite plates having outwardly-directed perforate flanges at their lower edges, outwardly-directed perforate guide-ears struck from the plates and alined with the perforations in the flanges, corresponding integral arms projected from the upper portions of the plates and lying in the planes thereof, a cross-bar connecting the arms, inverted substantially U-shaped impaling-pins working in the guides and the perforations of the respective plates, bell-crank levers fulcrumed upon the respective arms and connected to the heads of the respective impaling-pins, and a cross-bar handle connecting the upper ends of the levers for simultaneous manipulation.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOSEPH PARSONS ADAMS.

Witnesses:

A. P. JOHNSON,  
W. J. VERNON.