No. 883,477. PATENTED MAR. 31, 1908.

R. V. PARR.

BAG HOLDER.

APPLICATION FILED MAY 27, 1904.

Fig. 1.

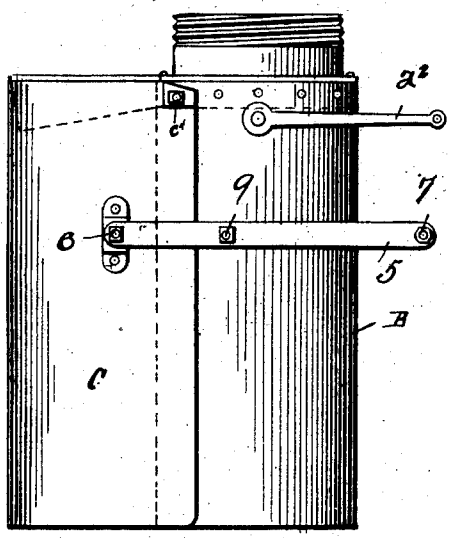


Fig. 2.

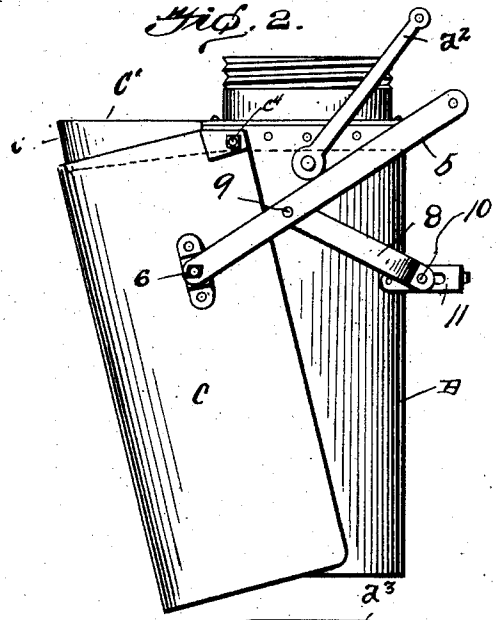


Fig. 3.

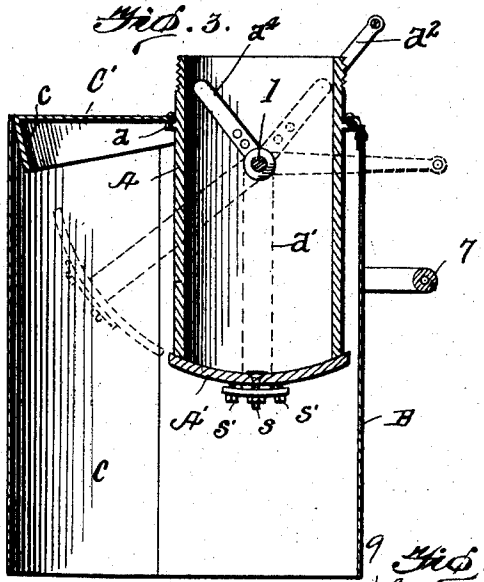


Fig. 4.

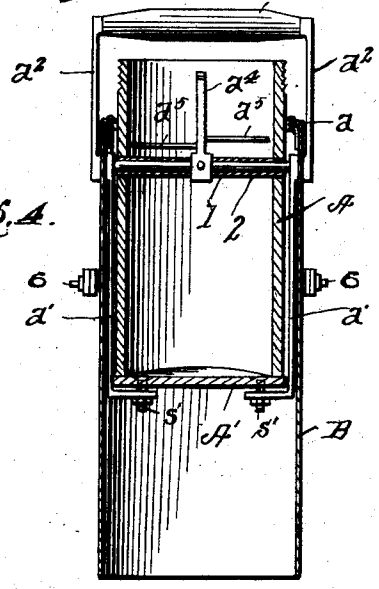
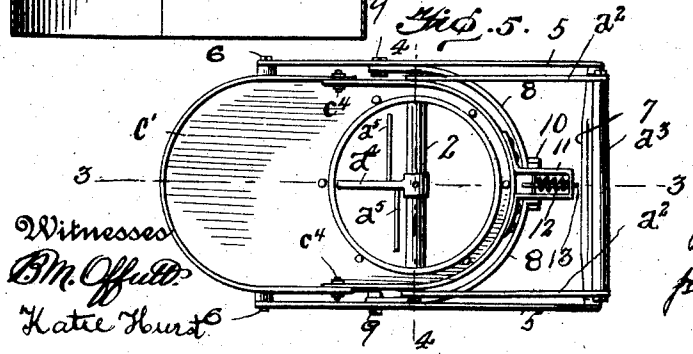


Fig. 5.



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RICHARD V. PARR, OF FORDWICK, VIRGINIA.

BAG-HOLDER.

No. 883,477. Specification of Letters Patent. Patented March 31, 1908.

Application filed May 27, 1904. Serial No. 210,118.

To all whom it may concern:

Be it known that I, RICHARD V. PARR, a citizen of the United States, residing at Fordwick, in the county of Augusta and State of Virginia, have invented certain new and useful Improvements in Bag-Holders, of which the following is a specification.

My said invention consists in an improved construction and arrangement of bag holders and fillers for use in connection with separators or other machines from which any substance is fed into bags, relating particularly to that particular form of bag holder forming the subject matter of my former Letters Patent No. 756,693, of April 5, 1904, whereby the holder may adjust itself to bags of varying sizes and be held therein under suitable tension, and whereby the flow of material may be shut off or regulated as desired by the operator in a convenient manner, all as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings which are made a part hereof and on which similar reference characters indicate similar parts, Figure 1 is a side elevation of a bag holder of my improved construction with its parts in the position they occupy when expanded, as when a bag is thereon and the apparatus ready for use, the valve being in open position, Fig. 2 a similar view with the parts in the position they occupy when a bag is to be placed thereon or removed therefrom, the valve being in closed position, Fig. 3 a vertical section on the dotted line 3—3 in Fig. 5 with the parts in the position shown in Fig. 1, Fig. 4 a transverse vertical section on the dotted line 4—4 in Fig. 5, and Fig. 5 a top or plan view.

In said drawings the portions marked A represent the chute or delivery pipe through which the material is fed, B the stationary side of the bag holder and C its hinged side.

The chute or delivery pipe A is preferably screw threaded at its upper end for attachment to the delivery pipe leading from the machine. Near its upper end it is provided with a circumferential flange or collar a. Its lower end is formed convex in cross section and has a valve A^1 of corresponding form mounted to swing upon supporting arms a^1 and adapted to cover said lower end. Said arms a^1 are hinged on a shaft 1 which extends through hollow tubular bearings 2, which are mounted in apertures in opposite sides of the pipe A and extend towards the center thereof. Said arms are fixed rigidly near the outer ends of said shaft. Levers a^2 are also fixed on said shaft adjacent to said arms and extend upwardly and to one side of the pipe A and are connected at their outer ends by a handle a^3. An agitator a^4 having arms a^5 which extend each way therefrom, is mounted on the center of shaft 1 between the ends of bearings 2 and serve to prevent the permanent lodgment of material upon said bearings. The arms a^2 are secured in the position best illustrated in Fig. 3 so that when they are in the position shown in whole lines in said figure, the valve A^1 will be in closed position and when in the position shown in dotted lines, the valve will be open, in the position shown by dotted lines. The handle a^3 will in all instances be at one side of the pipe A and on that side occupied by the attendant or operator. The valve plate A^1 is preferably mounted on the lower ends of the arms a^1 by means of a central supporting screw s and adjusting screws s^1 on each side thereof, as best shown in Fig. 3.

The side B of the bag holder is secured at its upper end around one side of collar a on pipe A, and extends down to beneath the lower end of said pipe A.

The side C is hinged at its upper and inner corners on pintles c^4 to the side B and is adapted to fit, when in the position shown in Fig. 1, around a depending flange c which extends downwardly from a top C^1, which top is of suitable shape and is secured to the flange a and extends outwardly from the side of pipe A to cover and close the top of the bag holder proper. Said flange c inclines inwardly from its outer edge towards said pipe A, as shown most clearly in Fig. 2, in order to permit the ready operation of the part C upon its hinges.

Levers 5 are pivoted on bolts 6 to the opposite sides of the pivoted section C and extend to one side of the apparatus and are connected at their outer ends by a handle 7. Curved links 8 are pivoted on bolts 9 to each of said levers 5 a short distance from the pivots 6 and are connected at their outer ends by a bolt 10 which extends through horizontal slots in the sides of a U-shaped bracket 11 which is secured firmly to the outer side of the rigid section B. A coiled spring 12 is interposed between said bolt 10 and the outer end of said bracket 11, surrounding a pin 13 which is inserted through a perforation in the outer end of said bracket and has a transverse perforation near its in-

ner end through which said bolt 10 extends thereby retaining the parts in position.

In operation, the parts being in the position shown in Fig. 2, the bag is placed over the lower end of parts B and C which are then expanded by forcing down the levers 5 by means of the connecting handle 7, which operates to throw the lower end of the hinged part C outwardly on its hinges c^4 until it reaches the position, or approximately the position, shown in Fig. 1, the bolt 10 connecting the outer ends of links 8 being allowed to slide in the slots in the sides of the bracket 11 to adjust the size of the holder to the size of the bag, the spring 12 serving to hold the bag holder in the mouth of the bag under sufficient tension whatever its size. The bag being in position the valve plate A^1 is opened by throwing the levers A^2, by means of the handle A^3, from the position shown in Fig. 2 and by whole lines in Fig. 3 to the position shown in Fig. 1, and by dotted lines in Fig. 3, which opens the lower end of pipe A and permits the material to flow into the bag. When a sufficient quantity has been allowed to flow into the bag, the valve is closed by elevating the handle a^3. The bag holder is contracted by elevating the handle 7 when the bag may be removed, another put in its place, and the operation repeated. The valve plate A^1 is adjusted to fit properly upon the lower end of pipe A by a proper adjustment of the supporting screws s and the adjusting side screws s^1, as will be readily understood.

By reason of having the handle 7 and the handle A^3 arranged on the same side of the device and adjacent to each other, the operator is enabled, without changing his position, to operate the valve and hinged section, one with either hand, as required, thus adding materially to the convenient arrangement and perfect operation of the device.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is,

1. A bag holder comprising a closed top, a fixed section on one side thereof, a hinged section on the other the edges of which overlap the edges of said fixed section, said hinged section being provided with a closed top, levers pivoted to one section and connected by links to the other, and a yielding connection between said parts, whereby the size of the bag holder when expanded may adjust itself automatically to the size of the bag, substantially as set forth.

2. In a bag holder, the combination of the top, the fixed section, the pivoted section, the pivoted levers for operating the pivoted section, links connecting them with the other section, said links being joined by a bar mounted in horizontal slots in a bracket on the side of said section and a spring interposed between the outer end of said bracket and said bar, substantially as set forth.

3. A bag holder comprising a pipe, a valve for covering the lower end of said pipe, levers for operating said valve, a fixed section secured on one side of said pipe, a pivoted section secured on the other side, and a link and lever connection for operating said pivoted section, the levers for operating said valve and said pivoted section being arranged on the same side of the device adjacent to each other, substantially as set forth.

4. In a bag holder, the combination of the main pipe, a valve for closing its lower end, means for operating said valve, the fixed section of the bag holder on one side of the main pipe, the pivoted section on the other side arranged with its edges overlapping the edges of said fixed section, a top for closing the top of said sections, levers pivoted to said pivoted section and connected by links to said fixed section, and a yielding connection between them, the levers for operating said valve and said pivoted section being arranged on the same side of the device adjacent to each other, substantially as set forth.

5. In a bag holder, the combination of the delivery tube, the rock-shaft in its top, a valve for closing its lower end connected with said rock-shaft, an agitator also mounted on said rock-shaft, levers for operating said rock-shaft, the fixed section of the bag holder on one side of said pipe, the pivoted section on the other side, and a link and lever connection for operating said pivoted section, the levers for operating said valve and said pivoted section being arranged on the same side of the device adjacent to each other, substantially as set forth.

6. In a bag holder, the combination, of the delivery pipe, the fixed section secured around one side thereof, the hinged section pivoted to the open side of said fixed section, and a link and lever connection between said sections yieldingly mounted at one side, whereby said holder will operate with bags of varying sizes, substantially as set forth.

7. A bag holder comprising a delivery pipe, a valve controlling the flow of material therethrough, means for operating said valve, a fixed section and a yielding section mounted around the lower end of said delivery pipe, and means for operating said yielding section, substantially as set forth.

In witness whereof, I have hereunto set my hand and seal at Fordwick, Virginia this 10th day of May, A. D. nineteen hundred and four.

RICHARD V. PARR. [L. S.]

Witnesses:
CHAS. S. HUNTER,
JAS. C. FOSTER.