

I. L. VAN SCHOIACK.
BAG HOLDER.
APPLICATION FILED JUNE 5, 1913.

1,110,018.

Patented Sept. 8, 1914.

Fig. 1.

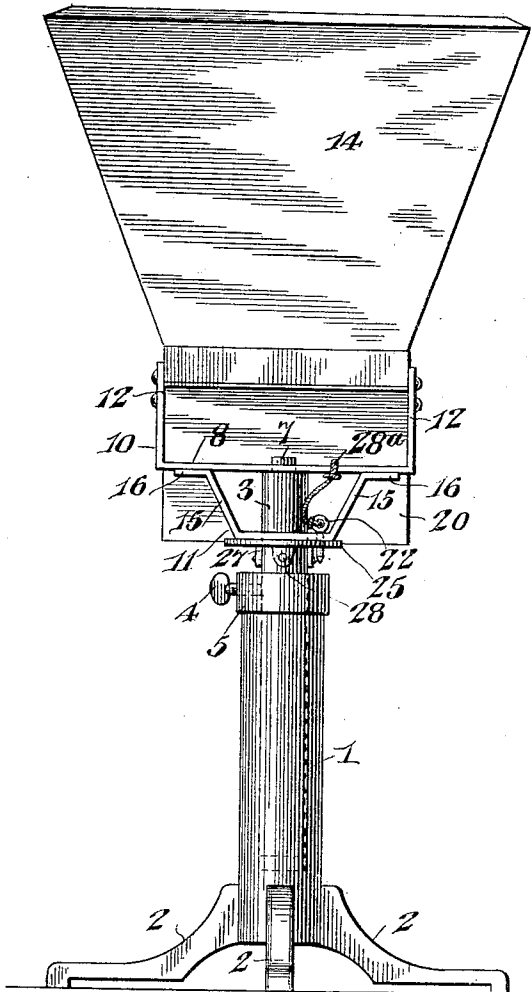


Fig. 2.

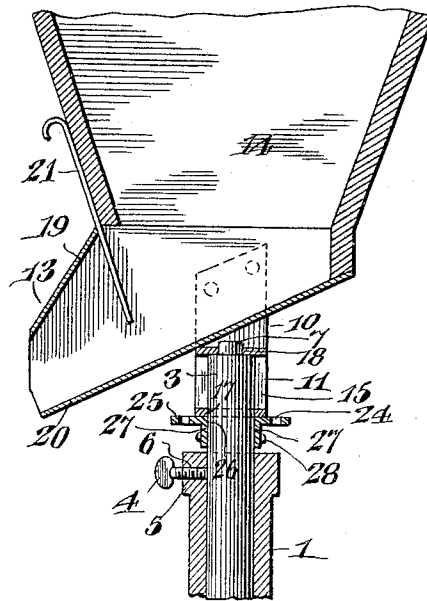


Fig. 4.

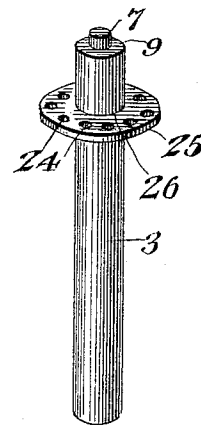
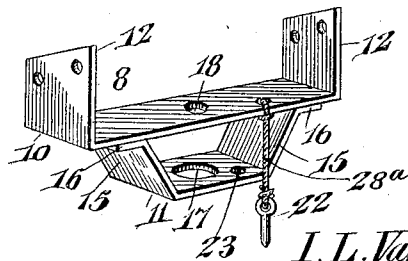


Fig. 3.



WITNESSES

James E. McEachran
J. T. Dwyer

I. L. Van Schoiack, INVENTOR

BY

E. J. Siggers

ATTORNEY

UNITED STATES PATENT OFFICE.

ISAAC L. VAN SCHOIACK, OF SUGAR GROVE, ILLINOIS.

BAG-HOLDER.

1,110,018.

Specification of Letters Patent.

Patented Sept. 8, 1914.

Application filed June 5, 1913. Serial No. 771,932.

To all whom it may concern:

Be it known that I, ISAAC L. VAN SCHOIACK, a citizen of the United States, residing at Sugar Grove, in the county of Kane and State of Illinois, have invented a new and useful Bag-Holder, of which the following is a specification.

The invention relates to improvements in bag holders.

The object of the present invention is to improve the construction of bag holders, and to provide a simple, practical and efficient bag holder of inexpensive construction, designed for use in granaries and various other places for filling bags, and capable of vertical and rotary adjustment to adapt it for holding bags of different lengths and to arrange it in convenient position for such filling operation.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a side elevation of a bag holder, constructed in accordance with this invention. Fig. 2 is a central vertical sectional view of a portion of the bag holder. Fig. 3 is a detail perspective view of the bearing and supporting brackets. Fig. 4 is a similar view of the vertically adjustable spindle.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

In the accompanying drawing in which is illustrated the preferred embodiment of the invention, 1 designates a hollow vertical standard, constructed of any suitable material and provided at its lower end with a plurality of downwardly extending legs 2, spread sufficiently to afford the required base for supporting the weight of a filled bag. The legs 2, which may be constructed of any suitable material, are connected at their inner ends to the standard, which receives a vertically adjustable stem or spindle 3, consisting of a round bar or member, slidable vertically within the hollow standard and freely movable into and out of the same and

secured in its adjustment by a set screw 4, piercing a collar or enlargement 5 at the upper end of the standard and bearing against the adjacent face of the vertical spindle. The perforation 6 of the collar or enlargement is interiorly threaded to engage the threads of the screw 4, which is provided at its outer end with a suitable head. The upper end 7 of the spindle is reduced to form a journal or pivot for a combined bearing and supporting bracket 8 and to provide a shoulder or seat 9 for the same.

The combined bearing and supporting bracket comprises in its construction an upper approximately U-shaped portion 10 and a lower tapered portion 11. The upper U-shaped portion 10 consists of a horizontal bar or member having upturned side portions 12, which are fitted against and secured by suitable fastening devices to the side faces of an inclined chute 13, extending downwardly and outwardly from a hopper 14. The said upper U-shaped portion is preferably constructed of a single piece of metal, and the lower tapered portion is also preferably composed of a plate or piece of metal bent at opposite sides of the center to form upwardly diverging inclined sides 15, having outwardly extending horizontal flanges 16 at their upper ends. The flanges 16 are suitably secured to the lower face of the bottom bar of the upper portion of the bracket, but the latter may be constructed in any other suitable manner. The horizontal portion of the lower tapered member of the bracket is provided with a central bearing opening 17 to receive the upper portion of the vertical spindle 3, and the reduced terminal portion or journal 7 thereof is arranged in a central bearing opening 18 of the horizontal bar of the upper U-shaped member of the bracket. The horizontal bar of the upper portion of the bracket rests upon the shoulder or seat 9, and the lower bearing opening 17 of the tapered bottom member of the bracket is of greater diameter than the upper opening 18 to fit the vertical spindle below the reduced upper end thereof. The hopper 14 tapers downwardly and the chute is composed of parallel side walls, an inclined top 19 and inclined bottom 20. The side walls are arranged in parallel vertical planes and incline downwardly and forwardly. The top wall 19 is connected with the front wall of the hopper while the inclined bottom 20 extends from the rear

wall of the same. Any suitable means may be employed for fastening a bag on the projecting chute, and the flow of material through the latter is controlled by a cutoff 5 21, extending through the top wall of the chute and adapted to be raised and lowered to vary the size of the outlet through the chute.

The bearing bracket is capable of rotary 10 movement on the upper portion of the vertical spindle to arrange the hopper and the chute in the desired position, and it is secured in its adjustment by a pin 22, adapted to extend through a perforation 23 in the 15 lower portion of the bearing bracket and engage any one of an annular series of perforations 24 of a flange 25. The flange 25, which consists of a disk or plate, is provided with a central opening 26 to receive 20 the vertical spindle, and it has a plurality of depending ears 27 formed of metal cut to provide the central opening 26 and secured by suitable fastening devices 28 to the side faces of the spindle. The flange 25, 25 which is annular, preferably fits the lower face of the bottom portion of the bearing bracket, and the perforations 23 are arranged at suitable intervals to secure the desired rotary adjustment of the hopper. The 30 screw 4, which engages the spindle to retain the latter in its vertical adjustment, also prevents rotary movement of the spindle within the standard and coöperates with the adjusting means of the bracket for maintaining the hopper in the desired adjustment. The pin 22 is provided with an 35 eye and is connected with the upper horizontal portion of the bearing bracket by a flexible connection 28^a, secured at one end 40 to the eye of the pin and having its other end fastened in a perforation in the upper horizontal portion of the bearing bracket.

What is claimed is:—

1. A bag holder including a hollow supporting standard, a vertical spindle fitting 45 in the standard and adjustable upwardly and downwardly therein, means for securing the spindle in its vertical adjustment, a rotary hopper provided at the bottom with 50 a chute, and a bearing bracket having spaced sides supporting the hopper, said bracket receiving and mounted for rotary movement on the upper end of the vertical spindle.

2. A bag holder including a hollow vertical supporting standard, a vertically ad-

justable spindle mounted in the standard and projecting therefrom, clamping means 60 mounted on the standard and engaging the spindle for securing the same in its adjustment, a bearing bracket having spaced upper and lower bearings mounted for rotary movement on the upper end of the spindle, a rotary hopper supported by the bearing bracket, and means for securing the bearing bracket 65 in its rotary adjustment.

3. A bag holder including a support having a vertical spindle provided with a reduced terminal journal, a bearing bracket 70 having upwardly extending arms and provided with spaced upper and lower horizontal portions having aligned bearing openings of different diameters to fit the reduced terminal journal of the spindle and the latter at a point below the said journal, and a hopper supported by the arms of the bearing 75 bracket.

4. A bag holder including a support, a vertical spindle projecting upwardly from the support and provided with a horizontal 80 flange having a plurality of perforations, a bearing bracket having spaced upper and lower bearing portions mounted on the spindle, the lower bearing portion being arranged adjacent to the said flange, a fastening device carried by the bearing bracket and arranged to engage the perforations of the 85 flange to secure the bracket in its adjustment, and a hopper supported by the bearing bracket.

5. A bag holder including a hopper provided at the lower portion with a chute, a bearing bracket comprising an upper approximately U-shaped member embracing the chute and secured to the same at opposite sides thereof, and a lower tapered member having inclined sides connected at their 95 upper ends to the bottom of the U-shaped member, the U-shaped and tapered members having spaced bearing openings, and a support having a spindle receiving the bearing bracket and fitting in the spaced bearing openings thereof. 100

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

ISAAC L. VAN SCHOTLACE.

Witnesses:

D. S. BLAIR,

H. SIEGIST.