J. H. MORRIS.

Bag Holder.

No. 33,209. Patented Sept. 3, 1861.

Fig. 1

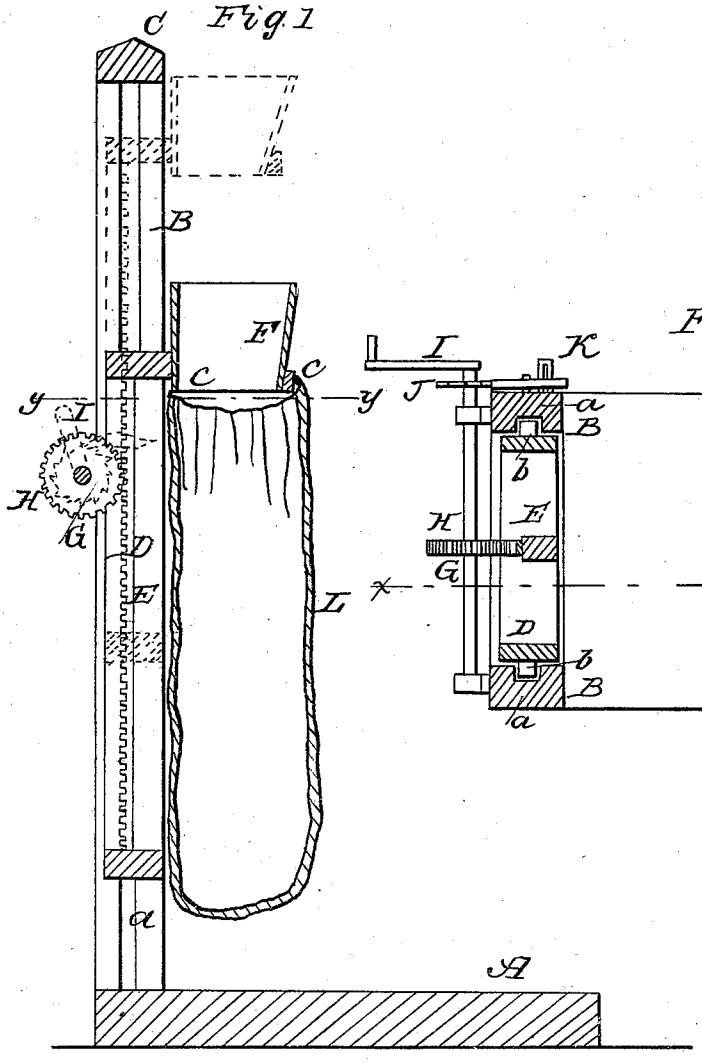

Fig. 2

WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

JOHN H. MORRIS, OF NILES, MICHIGAN.

IMPROVEMENT IN MACHINES FOR HOLDING BAGS WHILE BEING FILLED.

Specification forming part of Letters Patent No. **33,209**, dated September 3, 1861.

To all whom it may concern:

Be it known that I, JOHN H. MORRIS, of Niles, in the county of Berrien and State of Michigan, have invented a new and Improved Implement or Device for Holding Bags During the Process of Filling, designed chiefly for the use of farmers, millers, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 2. Fig. 2 is a horizontal section of the same, taken in the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

The object of this invention is to obtain a simple device for holding bags during the process of filling, whereby the orifices or tops of the bags may be kept distended and provided with a hopper or funnel and the bags also readily adjusted vertically, so that their lower ends may rest on the platform of the device and the weight of the bags and their contents supported thereby, so that the tops of the bags will not be torn by the supporting-hooks and the former when filled readily detached from the latter.

The invention consists in having a hopper or funnel attached to a vertically sliding or adjustable frame, the hopper or funnel being provided with hooks at its lower end, and the frame being provided with a rack into which a pinion gears, the shaft of the latter being placed in a framing in which the sliding frame works and provided at one end with a ratchet in which a holding-pawl catches, all being arranged substantially as hereinafter described.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a platform or base on which two uprights B B are placed, the uprights being connected at their upper ends by a cross-bar C. The inner sides of the uprights B B are grooved vertically, as shown at *a a*, and in these grooves the guides *b b* of a sliding frame D are fitted, said frame being allowed to slide freely up and down between the uprights B B.

In the frame D there is placed a vertical rack E, said rack being at the center of the frame, and at the upper end of the latter at one side there is permanently attached a hopper F, the lower end of which, as well as the upper part of frame D, has hooks *c* attached.

G is a shaft, the bearings of which are at the back sides of the uprights B B, and H is a pinion which is on the shaft G and which gears into the rack E. The shaft G has a crank I at one end and a ratchet J at the opposite end, the ratchet having a holding-pawl K engaging with it, which pawl is attached to one of the uprights B.

The operation is as follows: The bag L to be filled (shown in red) is secured on the hooks *c* at the bottom of the hopper F, and the frame D is raised or adjusted, so that the lower end of the bag will just rest on the platform or base A. The substance intended for the bag is then poured into the hopper F, and passes from thence into the bag. When the bag is filled, the frame D is lowered a little and the top of the bag is detached from the hooks, the filled bag removed and an empty one adjusted in its place. Thus it will be seen that the bags are firmly secured in position during the process of filling, and the bags being supported by the platform or base A, the hooks *c* are relieved of the weight of the bag and contents, and the bag is not liable to be torn by the hooks. The hopper also may be adjusted at any height to suit the length of the bags, the frame D, and consequently the hopper, being retained at the desired point in consequence of the pawl K catching into the ratchet J.

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

The sliding or adjustable frame D, with hopper F attached, provided with hooks *c*, the frame being fitted between the uprights B B and operated by the rack E and pinion H and retained at the desired point by the ratchet J and pawl K, substantially as and for the purpose set forth.

JOHN H. MORRIS.

Witnesses:

CLEMENT L. BARRON,
HERSCHELL F. WEED.