

G. M. ALLEN.
BAG-HOLDER.

No. 186,918.

Patented Feb. 6, 1877.

FIG. I

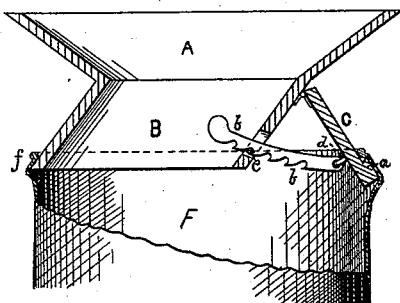


FIG. II

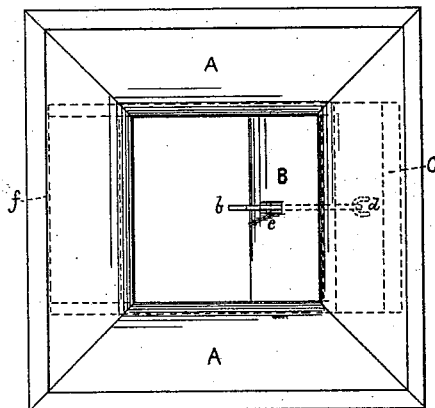


FIG. III

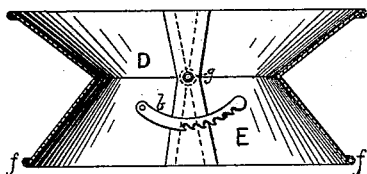
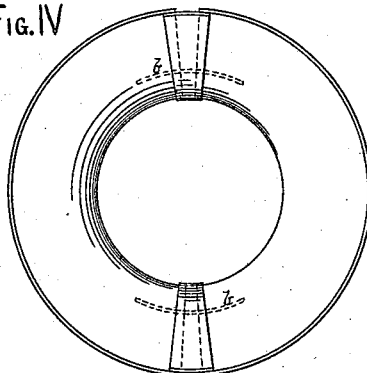


FIG. IV



WITNESSES.

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UNITED STATES PATENT OFFICE.

GEORGE M. ALLEN, OF HASTINGS, MINNESOTA.

IMPROVEMENT IN BAG-HOLDERS.

Specification forming part of Letters Patent No. 186,918, dated February 6, 1877; application filed October 31, 1876.

To all whom it may concern:

Be it known that I, GEORGE MELVIN ALLEN, of Hastings, in the county of Dakota and State of Minnesota, have invented certain new and useful Improvements in Bag-Holders, of which the following is a specification:

This invention relates to devices for supporting bags, &c., while being filled; and consists in a hopper, through which the grain, &c., is poured, to the bottom of which a short slanting spout is attached, having a hinged leaf or wing, which, when extended inside the bag by a suitable ratchet and pin, or its equivalent, serves to hold the bag fast to the spout while being filled, as hereinafter set forth.

In the drawings, Figure 1 is a sectional side elevation, showing the method of securing the bag to the spout. Fig. 2 is a plan view. Fig. 3 is a sectional side elevation; and Fig. 4, a plan view, showing a variation of the same device made of sheet metal.

A is a small hopper, having an open bottom, to which a short slanting spout, B, is secured. C is a flat wooden leaf or wing hinged to the under side of the hopper A, and which has a strip, *a*, secured thereto, to assist in holding the bag as it is placed in position. This leaf has a metal strip or plate, *b*, having ratchet-teeth in its lower edge, and which is hinged to the lower side of the leaf C, as shown at *d*. This plate *b* passes through a slot in the side of the hopper A, in which a pin, *e*, is secured, which engages with the ratchet-teeth, by which means the leaf C may be adjusted and held to any position, or extended or depressed from the inside, at pleasure.

Its operation is as follows: One side of a bag, F, being drawn over the back of the slanting spout B at *f*, the other side is drawn over the edge of the wing C, which has been

allowed to drop down by releasing the ratchet *b*. At the same time that the bag is drawn over the wing the wing is drawn back with it, and the ratchet, acting upon the pin *e*, prevents it from returning, and thus keeps the bag extended. It is thus far self-acting. This position of the leaf causes it to form in the top of the bag, in conjunction with the slanting edge *f* of the spout B, a dovetail, by which means the bag is firmly supported.

When the bag is full the ratchet *b* is released by pulling it up from the inside of the hopper, when the bag will fall of its own weight.

I do not wish to confine myself to the exact form of hopper and spout shown, as I am aware that it may be made in various ways.

Figs. 3 and 4 show a form of the device made of sheet metal, made in two halves, D E, and hinged in the center at *g*, while the ratchet *b* is secured to one of the halves, D, and acts upon a pin in the other half, E.

It may be applied in various other ways; but I prefer the form shown in Figs. 1 and 2.

It may be mounted on a frame-work, for use about thrashing-machines, barns, farms, &c.; or it may be secured permanently to the spouts and hoppers in mills, granaries, &c.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination and arrangement of the hinged leaf C, inclined spout B, and adjustable holding-ratchet *b*, when arranged and operated substantially as hereinbefore specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

GEORGE M. ALLEN.

Witnesses:

C. N. WOODWARD,
JOHN T. HALSTED.