

(No Model.)

J. H. THAMER.
ADJUSTABLE BAG HOLDER.

No. 532,497.

Patented Jan. 15, 1895.

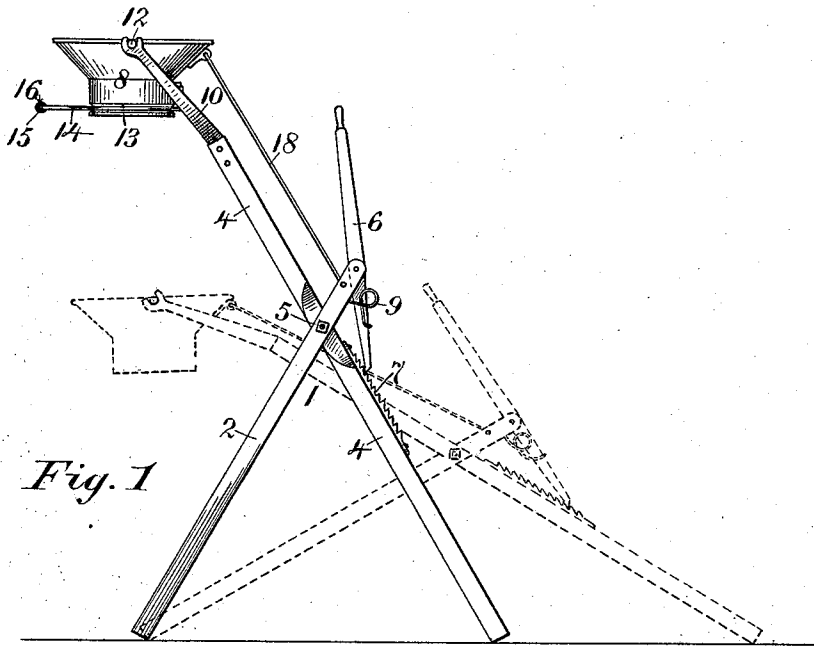


Fig. 1

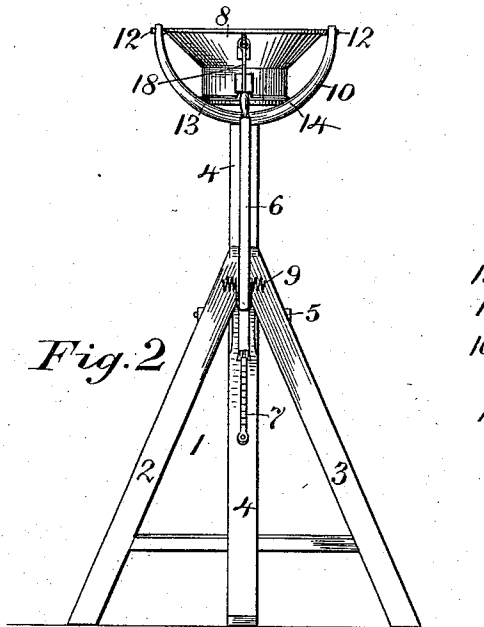


Fig. 2

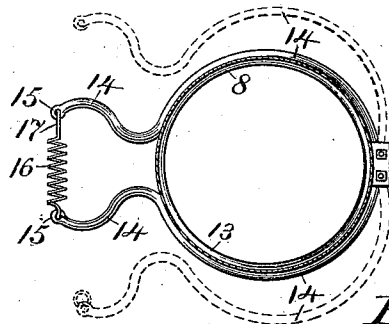


Fig. 3

Witnesses
George C. Lucas.
Albert A. Beanes

Inventor
John Huber Thamer
per W. J. Graham
att'y.

UNITED STATES PATENT OFFICE.

JOHN HUBER THAMER, OF ROSEVILLE, CANADA.

ADJUSTABLE BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 532,497, dated January 15, 1895.

Application filed September 20, 1894. Serial No. 523,564. (No model.)

To all whom it may concern:

Be it known that I, JOHN HUBER THAMER, of Roseville, in the county of Waterloo and Province of Ontario, Canada, have invented a certain new and useful Adjustable Bag-Holder, of which the following is a specification.

My invention relates particularly to a device for holding grain bags or sacks when the same are being filled by means of a shovel or the device may be used to hold bags beneath a chute from which the grain discharges; and the object of the invention is to provide means which can be adjusted to hold bags of any size in use, and dispense with the service of a second person employed to hold the mouth of the bag open to receive the grain shoveled into it by the other person.

The invention consists, briefly stated, of a tripod stand having two of its legs connected to move together and at their upper ends receive the third leg jointed between them so as to swing to and fro at their lower ends. The third leg extends above the other two and supports a hopper at its upper end in a manner hereinafter fully described and allows the same to move and always stand in the same vertical plane by a connection between the hopper and the upper ends of said legs, which preserves this vertical position. By means of a hand lever supported on said two legs and connected to and engaging the third leg by adapted means, the hopper can be raised or lowered readily.

In the accompanying drawings illustrating my invention similar numbers of reference refer to similar parts throughout.

Figure 1. represents a side view of my invention in the elevated and depressed positions, for holding long and short bags respectively. Fig. 2. represents a rear view of the same in the elevated position, and Fig. 3. represents an enlarged detail of the springs employed to grip the mouth of the bag around the bottom of the hopper, which is shown in section.

The frame or tripod, 1, consists of the two legs, 2 and 3, secured together near their lower and upper ends, and the third or swinging leg 4, which is jointed between said legs 2 and 3, at a suitable distance from their upper ends by means of a bolt 5, as shown pass-

ing through all three legs. The legs 2 and 3, may consist of one piece or member suitably divided and separated at its lower end to steady the tripod, 1, laterally and at the upper end again divided to have the leg 3 pass between its members.

Between the upper ends of the legs 2 and 3 is jointed a hand lever, 6, which is adapted at its lower end to engage a series of ratchets, 7, on the leg, 4, separating from the legs, 2, and 3, more than necessary to obtain the required height of the hopper, 8, on the upper end of the leg, 4. Instead of the ratchets, 7, a series of holes at suitable intervals may be employed and engaged by a pin on the lower end of the lever, 6, or other equivalent means will answer.

To actuate the lever, 6, to engage the ratchets or other means of security on the leg, 4, a spring, 9, preferably of coiled wire is secured to the legs, 2, and 3, and bears on the lever, 6, as shown.

To the upper end of the leg, 4, is suitably secured a bifurcated support, 10, adapted at the upper ends thereof to support the hopper, 8, which has short arms, 12, on opposite sides, as shown. The support, 10, is preferably of suitable cast metal and is inclined downward slightly from the line of the leg, 4, as shown, so as not to interfere with the hopper, 10, when elevated fully.

The hopper, 8, is preferably of suitable sheet metal and of the form shown, having the conical upper portion flared to receive the grain readily and having the diminished cylindrical lower portion to direct the grain into the bag secured to its lower end. In the lower edge of the hopper, 8, a groove, 13, is formed by means of two semi-circular shaped rods, 14, of metal jointed to the rear of the hopper, 8, and at the front they extend outward and have eyes, 15, formed thereon, to one of which a spiral spring, 16, having a hook, 17, is secured. The hook, 17, hitched to the opposite eye, 15, and by the contractile force of the spring, 16, the bag is gripped firmly against the lower edge of the hopper, 8, and held thereby, as bags usually have a thick hem at the edge which prevents the bag slipping between the gripping device described and the hopper.

A rod, 18, connects the rear side of the hopper, 8, to the upper ends of the legs, 2, and 3

and preserves the vertical position of the hopper, 8, no matter in what position the legs 2, 3, and 4, may be placed relatively.

5 The legs 2, 3, and 4, are preferably constructed of suitable wood, though iron may be employed, and in other parts of my invention the materials employed are unimportant.

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

1. In an adjustable bag-holder, the tripod having the legs jointed together as specified, a lever carried by said legs and providing means whereby the legs are held at different
15 relative positions, a spring to actuate said lever to engage means of security on the third leg of the tripod, a bifurcated support on the upper and extended end of the third leg of the tripod, a hopper carried by said bifurcated support, a groove in the lower portion
20 of the hopper, and the semicircular clamps on said hopper to secure the mouth of the bag into said groove, substantially as shown and described.

25 2. In an adjustable bag-holder, the combination of a tripod composed of three legs jointed as specified and having the third leg extended upward above the other two legs, a bifurcated support on said extended end of
30 the third leg of the tripod, a hopper carried by said support and a rod connecting the said hopper to the upper ends of the other two legs of said tripod, so as to maintain said hopper to stand vertically irrespective of the relative
35 positions of the legs of the tripod to one another, substantially as and for the purpose set forth.

3. In an adjustable bag-holder, the combination of a tripod jointed as specified and having the upper ends of its legs extended
40 above the joint, a hand lever carried between the upper ends of the pair of legs as described, a spring on said pair of legs of the tripod and bearing on said hand lever a bifurcated support on the extended end of the
45 third leg of said tripod, a hopper carried in said bifurcated support, and a rod connecting said hopper to the upper ends of the pair of legs of the tripod, so as to maintain said hopper to stand vertically irrespective of the
50 relative positions of the legs of the tripod to one another substantially as shown and described.

4. In an adjustable bag holder, the combination of a tripod jointed as specified and
55 having the upper ends of its legs extended above the joint, a hand lever carried between the upper ends of the pair of legs, a spring on said pair of legs to actuate said hand lever to engage a rack on the third leg of the tripod, a bifurcated support on the upper end
60 of the third leg of the tripod, a hopper carried by said support, a clamp composed of two semi-circular rods, to secure the mouth of a bag engaged in a groove in the lower portion
65 of said hopper, and a rod connecting said hopper to the upper ends of the pair of legs of said tripod, substantially as and for the purpose specified.

JOHN HUBER THAMER.

Witnesses:

THOS. H. ALLEN,
J. MCBRIDE.