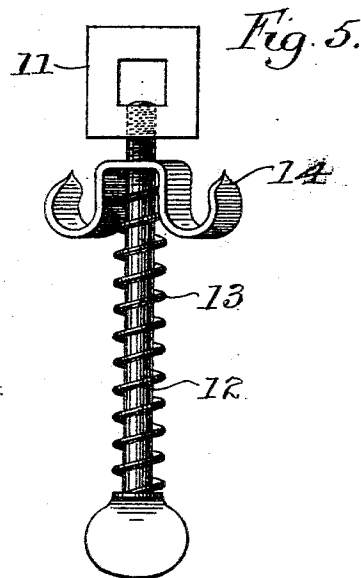
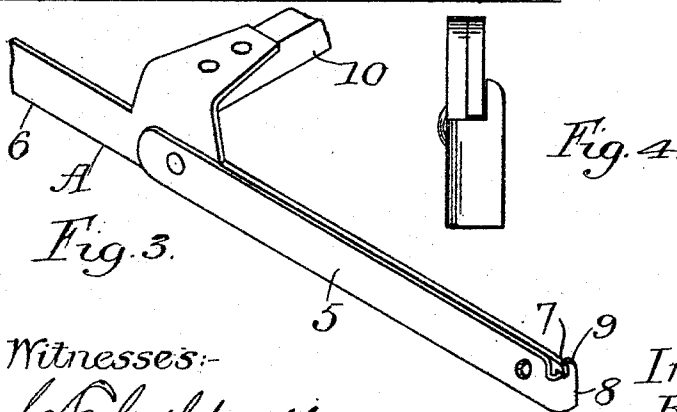
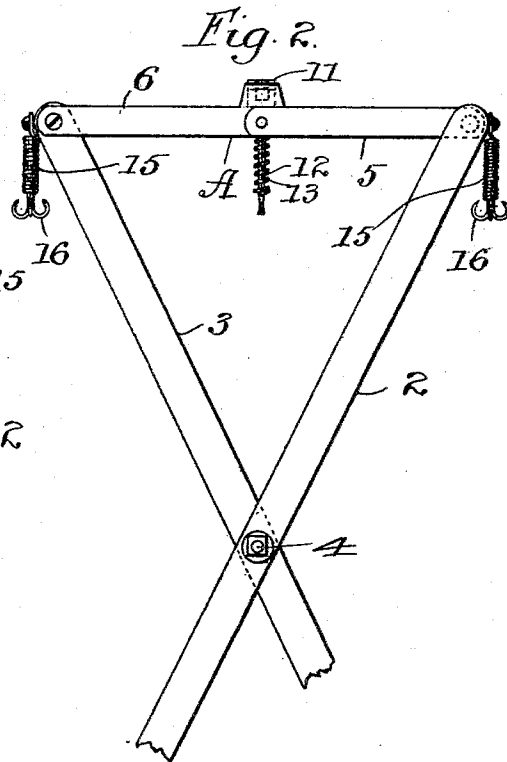
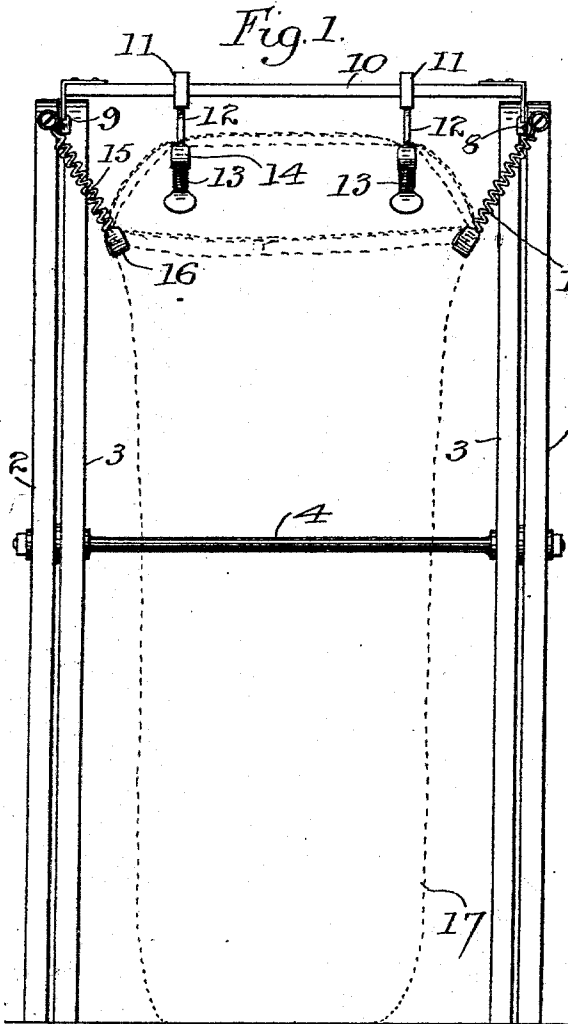


(No Model.)

R. MATIER.
FOLDING BAG HOLDER.

No. 514,481.

Patented Feb. 13, 1894.



Witnesses:-
C. H. Caldwell.
H. S. Johnson.

Inventor:-
Robert Matier.
per V. D. Marwin
Attorney.

UNITED STATES PATENT OFFICE.

ROBERT MATIER, OF WINNIPEG, CANADA.

FOLDING BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 514,481, dated February 13, 1894.

Application filed April 10, 1893. Serial No. 469,786. (No model.)

To all whom it may concern:

Be it known that I, ROBERT MATIER, a subject of the Queen of Great Britain, residing at Winnipeg, Province of Manitoba, Canada, have invented certain new and useful Improvements in Folding Bag-Holders, of which the following is a specification.

My invention relates to improvements in devices for holding grain bags open in position to be filled; its object being to provide an apparatus which shall be collapsible for convenience in transporting, adjustable to different sized bags and having spring controlled attachments which will yield to the weight of the contents in the bag, so as to allow it to rest upon the ground while being filled.

To this end my invention consists in providing a frame made up of two pairs of crossed standards having a common axis or pivot, and separated a convenient distance for a bag to be placed between. The tops of each pair of standards are connected by jointed bars, which when opened will hold them separated, but which can be folded together to collapse the frame. These jointed bars are connected by a cross bar along which slide adjustable collars, and to these collars and the tops of the standards are connected spring hooks to which the top or mouth of the bag is attached, thus permitting two bags to be supported upon the same frame, one on each side of the axis.

My invention further consists in the specific construction and combination hereinafter described and particularly pointed out in the claims.

In the accompanying drawings forming part of this specification, Figure 1 represents a side elevation of my improved bag holder showing the springs of the bag supporting hooks under the tension of the weight of the contents of the bag. Fig. 2 is a partial end elevation of the same. Fig. 3 is a partial perspective detail of the jointed bar, connecting the tops of the standards. Fig. 4 is an end view of the same, and Fig. 5 is a detail of the sliding collar with its set screw, and the spring and hook arranged thereon.

In the drawings 2 and 3 represent the crossed standards, the two pairs being connected by

the axis 4, which serves as a pivot for each pair to turn upon. The tops of the standards are connected by the jointed bar A made up of the member 5 pivoted at one end to the top of the standard 2, and at its other end to the center of the member 6. The member 6 is pivoted at one end to the top of the standard 3, and its other end has a projecting finger 7, which rests upon the inturned end 8 of the bar 5. An upwardly projecting spur 9 upon the inturned end 8 engages and holds the finger 7 from lateral displacement, and prevents the breaking or bending down of the jointed bar at the middle. When it is desired to fold the jointed bar to collapse the frame, the finger 7 is lifted over and swung outside of the projection 9, when the member 6 can be turned downward. The jointed bars A at the two ends of the frame are connected by the cross bar 10, upon which slide the collars 11. These collars can be fixed in adjusted positions upon the bar by means of set screws 12 (see Fig. 5). These set screws are lengthened, as shown in Fig. 5, to serve as spindles to carry the spiral springs 13, upon the top of which springs rest the double hooks 14. To the top of each of the standards 2 and 3 is connected a spiral spring 15 provided at its free end with a double hook 16 similar in form to the hook 14. The springs 13 are compressible while the springs 15 are extensible.

The apparatus is used as follows: The tops of the standards being spread and the point 7 of the member 6 slipped over the projection 9 upon the bar, the frame is held firmly in open position the lower ends of the standards being correspondingly spread to furnish a firm support. The position of the collars 11 is then moved along the bar 10 to adapt them to the size of the bags to be held, and then fixed in position by their set screws. The mouth of the bag 17 is then caught upon the hooks 14, and also the hooks 16, one member of the hook being of use to the operator to pull it down against the tension of its spring into position for the bag to be attached. The bag may be similarly secured to the hooks 14 and 16 on the other side of the frame, one bag thus hanging on one side and the other on the other side of the axis 4. As the bag is partially filled the weight of the contents

causes it to be drawn down until it rests upon the ground, the springs 14 and 16 yielding to the tension, as indicated in Fig. 1. Upon the removal of the bag, the frame can be collapsed as described, for transportation.

I claim—

1. In a device of the class described, the combination of the standards, the hooks connected to the tops thereof, the offset bar connecting the tops of the standards, and the hooks adjustable along said bar.

2. In a device of the class described, the combination of the standards, the spring hooks attached to the tops thereof, the cross bar connected to the tops of said standards and the spring hooks adjustable along said cross bar, substantially as described.

3. In a device of the class described, the combination of the two pairs of crossed standards having a common axis serving as a pivot, the jointed bars connecting the top of each pair of standards, the cross bar connecting said jointed bars, spring hooks attached to the tops of said standards and the spring

hooks adjustable along said cross bar, substantially as described.

4. A collapsible bag holder, comprising in combination, the two pairs of crossed standards having a common pivot axis, the knife jointed bars connecting the tops of each pair of standards, the cross bar connecting said jointed bars, spring controlled double hooks attached to the tops of said standards and the similar hooks having supports adjustable along said cross bar, substantially as described.

5. In a device of the class described, the combination of the standards, the spring hooks attached to the tops thereof, the cross bar connected to the tops of said standards and the spring hooks adjustable along said cross bar, substantially as described.

In testimony whereof I have hereunto set my hand this 23d day of March, 1893.

ROBERT MATIER.

Witnesses:

T. D. MERWIN,
H. S. JOHNSON.