

No. 628,451.

Patented July 11, 1899.

**E. DAWSON.
FEED BAG.**

(Application filed Oct. 29, 1894. Renewed Dec. 6, 1898.)

(No Model.)

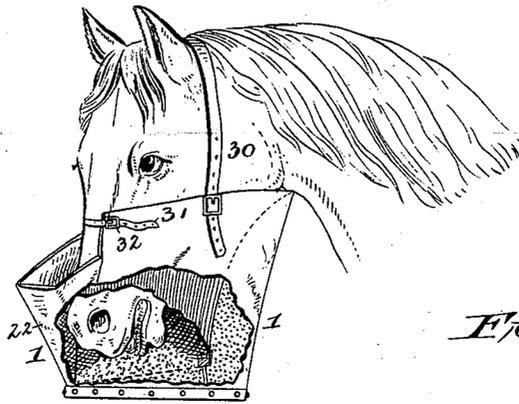


Fig. 1.

Fig. 2.

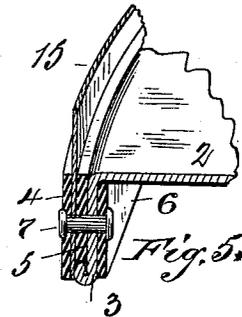
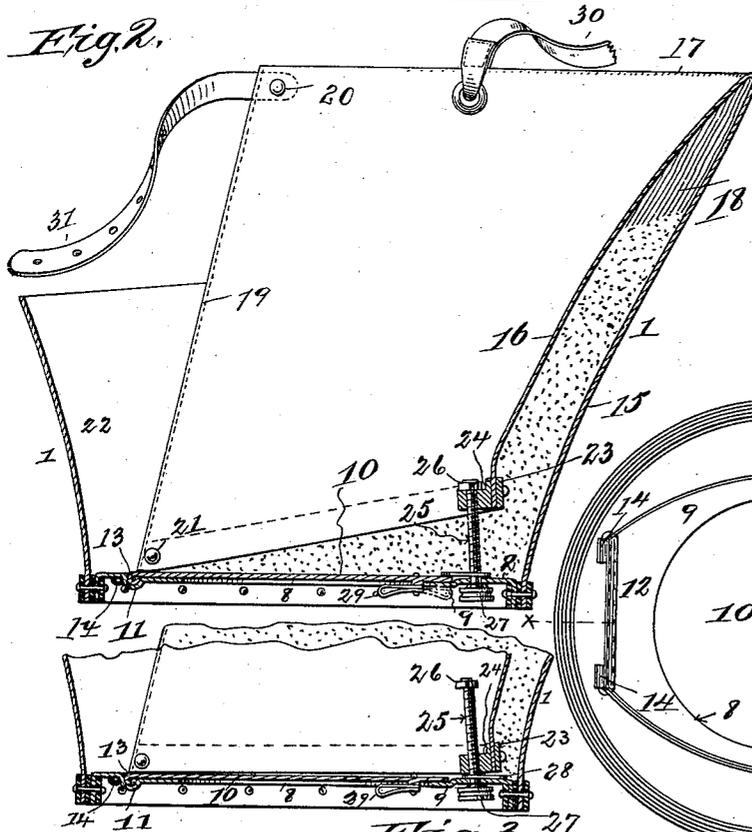
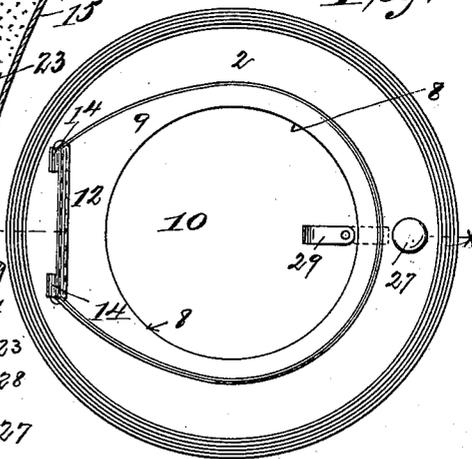


Fig. 5.

Fig. 3.



WITNESSES:

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FEED-BAG.

SPECIFICATION forming part of Letters Patent No. 628,451, dated July 11, 1899.

Application filed October 29, 1894. Renewed December 6, 1898. Serial No. 698,480. (No model.)

To all whom it may concern:

Be it known that I, EDWARD DAWSON, a citizen of the United States, residing at New York, (Brooklyn,) in the county of Kings and State of New York, have invented certain new and useful Improvements in Feed-Bags, of which the following is a specification.

My invention has for its object to provide for the economy or saving of the feed, as well as to cheapen the cost of manufacture of the nose-bag.

My invention consists in a bag having a pocket for the reception of the feed and a movable bottom and means for filling the pocket from the bottom of the bag, means for opening and closing the pocket to allow the exit of the feed to the interior of the bag and also for closing the same, and, further, means for locking the movable bottom.

My invention also comprises the details of construction hereinafter described and further pointed out in the claims.

In the drawings, Figure 1 is a diagrammatic representation of a horse's head with my improved feed-bag secured thereto, the bag being broken away to show the construction and operation thereof; Fig. 2, an enlarged sectional elevation of the bag on the line *xx*, Fig. 4, with the pocket opened to permit the exit of the feed; Fig. 3, a like view of a portion of the bottom of the bag, showing the pocket closed; Fig. 4, a plan view of the bottom of the bag; Fig. 5, a sectional perspective elevation of a portion of the bottom of the bag, showing the method of attaching the body of the bag to the bottom.

Similar numerals of reference refer to like parts throughout the several views.

At 1 is the bag portion, preferably made of canvas, the outer and lower edge of which is secured to the bottom 2 in the following manner: The bottom is inverted-dish shape, having a downwardly-projecting flange 3, to which flange the canvas 15 is secured by forming three strips of leather or like material 4 5 6, the strips being perforated to receive eyelets 7, which likewise pass through the flange 3 of the bottom. The canvas is placed between the strips 4 and 5 on the outside of the flange 3, the inner strip 5 being placed against the flange, the strip 6 being placed on the inner side of the flange, and all of the strips and

the flange are secured together, as shown in Fig. 5, by means of the stud or rivet 7. By this construction I am enabled to secure the fabric of the bag directly to the bottom without the use of any strips or pieces of leather or like material intermediate of the bottom and the fabric of the bag, as has been heretofore practiced, by means of which a clean flush union of the fabric is had with the bottom.

The bottom is preferably made of struck-up sheet metal and has a circular aperture 8 centrally located in a horseshoe-shaped recess or depression 9 formed in the bottom. To close the opening 8, I use a hinged cover 10, which is movably secured upon the bottom and within the bag, to open and close the aperture 8 by forming a tubular lug 11 on the front end of the cover 10, which preferably conforms in shape to the depression 9, which lug lies within a transverse depression 12, formed in the depression 9, and adjacent the ends of the depression 12 small apertures are formed in the bottom, which permit of the passage of a small strip of wire 13, which is secured to the bottom on the under side by clumps of solder 14, as shown in Fig. 4, thereby hinging the cover 10 to the bottom 2. Thus I provide means for opening and closing the bottom of the bag to permit of filling the pocket of the bag with feed, which cover lies flush with the bottom, so as not to present any sharp or abrupt surfaces which might be liable to injure the horse.

The body of the bag is formed of two pieces, preferably of canvas or duck, the main one forming the rear portion of the bag and pocket and the front one forming the nose and breathing portion of the bag.

The pocket of the bag is formed of a single oblong piece of fabric 15 16, bent upon itself at 17 to form a pocket 18 for containing the feed, the vertical edges of which are secured together by sewing, as at 19, and at the upper and lower corners by rivets 20 21. This leaves the lower edge of the part or "fold" 16, so called, free and movable, so that the mouth of the pocket can be opened or closed to permit of the feed being placed within the pocket and also for permitting its exit onto the bottom of the bag.

The front and nose portion of the bag con-

sists of a strip of fabric 22 of preferably a little more than half the height of the pocket portion of the bag, having its vertical edges secured between the folds 15 16 of the pocket 18 by the said line of stitches 19 and rivets 21 at the bottom, both the portions 15 and 22 being secured continuously to the bottom 2, as hereinbefore described. This construction of the nose portion of the bag gives ample breathing-space for the horse, makes the bag lighter, and reduces its cost.

To open or close the pocket 18 to permit of the entry or discharge of the feed, I employ the following mechanism: To the inner edge of the bottom of the fold 16 I secure by stitching or otherwise a strip of leather 23, which is flexible, yet stiff enough to keep the bottom of the movable portion of the pocket in proper shape, and centrally of the lower edge of the fold 16 and opposite the leather strip 23 I secure an interiorly-screw-threaded stud 24, through which passes a screw-threaded spindle 25, which passes likewise through an aperture in the bottom 2, the spindle being provided at its top and above the stud 24 with a bearing-nut 26 and at its lower end below the bottom 2 with an enlarged head 27 and above the bottom with an eccentric washer 28, both the head 27 and washer 28 abutting against the bottom 2. Motion of the spindle 25 in either direction will raise or lower the bottom of the fold 16, opening or closing the mouth of the pocket 18, the eccentric washer 28 being fixedly secured to the spindle 25, so that it rotates with it and is intermittently off and on the cover 10 during the rotation of the spindle.

By the use of the eccentric washer 28 I can maintain the cover 10 fastened down within its recess 9 to close its opening 8, as a slight tap on the cover will be sufficient to ascertain whether the washer has engaged the cover 10 or not. In order to insure against accidents in this direction, however, I have pivotally secured a tab 29 to the cover 10, which can be moved into and out of engagement with the bottom of the recess 9, thus permitting the bottom to be opened or positively closing it, as desired.

When the pocket is opened, the parts are preferably in the shape indicated in Fig. 2 and when closed are preferably in the position indicated in Fig. 3, with the exception that the cover 10 can be fast shut or not, as desired.

To fill the bag, it is inverted with its bottom upward, the mouth of the pocket opened by turning the spindle 25, and the cover 10 freed, which will fall into the bag against the edge of the fold 16, thus diagonally aligning the pocket with the opening in the bottom, which when secured will permit of the feed being poured into the pocket. When sufficient feed has been received in the pocket, the spindle is reversely turned, closing the mouth of the pocket, the cover 10 being lifted by the tab 29, which is then turned to secure the cover

down upon the bottom. The mouth of the pocket and the cover 10 being closed, the bag can then be reinverted and the feed will settle down on the bottom of the pocket ready to move within the bag, as shown in Fig. 1.

For supporting the bag upon the head of the horse a buckle and strap 30 can be used, and for drawing the sides of the pocket portion together a strap 31 and buckle 32 can be employed.

The construction of the bottom, as before described, hides all of the movable parts which are secured thereto, keeps them from direct contact with the ground, strengthens the bottom, and gives weight to the bottom of the bag.

Having described my invention, I claim—

1. The combination, in a feed-bag, of a pocket in said bag, the lower edge of the interior portion of said pocket being movable, and means secured to the bottom of said bag and to the movable edge of the pocket for opening or closing said pocket from the exterior of the bag, substantially as described.

2. The combination, in a feed-bag, of the bottom, the bag portion, a pocket in the bag portion having its inner lower edge movable, an apertured screw-threaded stud secured to said movable edge, a screw-threaded spindle extending through said bottom and engaging said stud, the spindle having an enlarged head engaging the exterior of the bottom, and means for confining the remote corners of the pocket, whereby said movable edge can be raised or lowered to or from the bottom to open and close the pocket, substantially as described.

3. The combination, with the bottom 2, of the exterior fabric 15, 22, the interior fabric or fold 16 movably secured at its lower edge to the outer fabric, a reinforcing-strip 23 secured to the inner and lower edge of the fold 16, the stud 24 secured to said movable edge, and a screw-threaded spindle 25 engaging the bottom 2 and stud 24 for moving the lower edge of the pocket to or from said bottom, substantially as described.

4. The combination, with the bottom 2, of the outer fabric of the bag, the inner fabric 16 united with a portion of the outer fabric to form a pocket 18, a stud 24 secured to the lower edge of the fold 16, the spindle 25 passing between said stud and the bottom of the bag, an enlarged head on the spindle exterior to the bottom, an eccentric washer 28 on the spindle, said bottom having an aperture, and a movable cover over said aperture adapted to be engaged by said washer, substantially as described.

5. In a bag, the combination of the pocket 18 formed at the rear of the bag, the nose portion 22 formed at the front of the bag of less height than the rear body of the bag, a pocket within said pocket portion, an apertured bottom, a cover hinged to said bottom at the nose portion of the bag, means for opening or closing the said pocket, and fur-

ther means for securing the said cover over said aperture, substantially as described.

6. The combination, in a feed-bag having an interior pocket, of the bottom, an aperture therein, a hinged cover secured over said aperture, a screw-threaded spindle extending from said bottom to said pocket to open and close the same, and an eccentric washer operated by said spindle to lock or

free said movable cover, substantially as described.

Signed in the city, county, and State of New York this 27th day of October, 1894.

EDWARD DAWSON.

Witnesses:

JOSEPH L. LEVY,
B. S. WISE.