

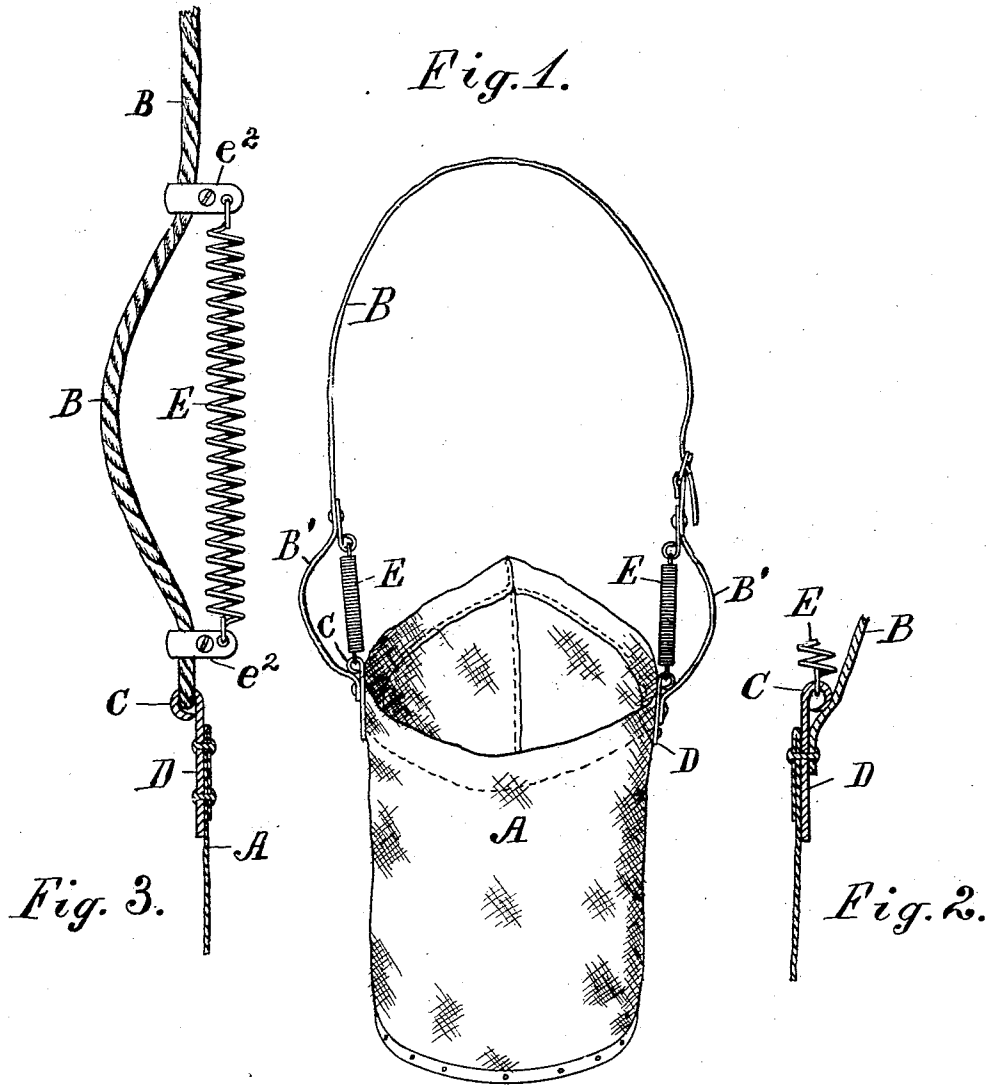
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Patented Oct. 7, 1902.

L. CUTLER & C. W. SMITH.
SELF ADJUSTING FEED BAG.

(Application filed May 20, 1902.)

(No Model.)



Attest:
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UNITED STATES PATENT OFFICE.

LORENZO CUTLER, OF NEW YORK, AND CLARENCE W. SMITH, OF
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SELF-ADJUSTING FEED-BAG.

SPECIFICATION forming part of Letters Patent No. 710,670, dated October 7, 1902.

Application filed May 20, 1902. Serial No. 108,219. (No model.)

To all whom it may concern:

Be it known that we, LORENZO CUTLER, residing at 2371 Seventh avenue, New York, county of New York, and CLARENCE W. SMITH, residing at 1223 Pacific street, Brooklyn, county of Kings, State of New York, both citizens of the United States, have invented certain new and useful Improvements in Self-Adjusting Feed-Bags, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

The object of the present invention is to furnish a means of holding the bottom of a feed-bag close to the horse's muzzle during the consumption of the oats, so that it may not be necessary for him to jerk the bag upward to reach the oats, as such jerking often results in the spilling of the oats.

Various spring attachments have been already devised for supporting the feed-bag elastically under the horse's nose; but such attachments involve the addition of various fixtures to the bag or its suspender or suspending-strap, while the present invention requires merely the connection of the spiral springs to the strap at suitable points to form a slack loop in the suspender at the side of each spring.

In practice we attach metal ears by means of riveted feet to the opposite edges of the bag and rivet the ends of the suspender over such feet, connecting one end of a spiral spring to each of said ears and the opposite end of the spring to a suitable point upon the suspender to form a slack loop of the suspender outside of the spring adjacent to the edge of the bag. The suspender is furnished with the usual buckle for adjusting it to the horse's head, and the springs are adapted to yield when the bag is full of feed and to draw the bag elastically upward as it becomes emptied, thus holding the feed constantly close to the horse's mouth.

The term "suspender" is used herein to designate a rope or a leather or canvas band or any other suitable suspender for supporting the feed-bag upon the horse's head.

The invention will be understood by reference to the annexed drawings, in which—

Figure 1 is a perspective view of a feed-bag

provided with our improvement and the edges of the bag furnished with metal ears, and Fig. 2 is a section of the suspender shown in Fig. 1 at its point of attachment to the bag. Fig. 3 is a view of one edge of the bag and its attachments with both ends of the spring attached directly to the suspending-strap.

A designates the bag, B a flat suspender-strap, and C the ears attached to the top edges of the bag at opposite sides by means of the feet D. The ends of the suspender are applied over the feet and the rivet extended through the feet, the suspender, and the edge of the bag, as shown in Fig. 2. The lower end of each spiral spring E is attached to one of the ears C, and the upper end of such spring is attached to the suspender by means of an ear e, an eyebolt, or by any other suitable means. A loop of the suspender is bowed outwardly from the upper end of the spring to the lower end of the same to permit the extension of the springs when applying the bag to the horse's muzzle.

In the modification shown in Fig. 3 the suspender is shown formed of a rope, and the end of the rope is tied in the ear C, and the ends of the spiral spring are secured to two points upon the rope by means of clips e², such points being adjacent to the bag, but separated sufficiently to form a slack loop in the strap, as already described. In this view the spring is shown partially extended and the loop partially straightened, as would occur when the bag is loaded and first applied to the horse's head. It is common to attach ears to the edges of a feed-bag and tie a rope therefor supporting the bag, and it will therefore be observed that with our invention no additional mechanical features are required beyond what are shown in such bag, except the spiral springs and some simple means of attaching the same at opposite ends to the strap.

It will be observed that the suspender, whether made of rope, leather, or canvas, is not cut to apply the spring, and its integrity is not impaired by the application of the invention, and the bag does not, therefore, lose its support upon the horse's head in case the spring becomes broken. The invention does not, therefore, require any special construc-

tion of the bag or the strap or the attachments of the strap to the bag; but the application of the spiral spring by suitable connections to two points upon the suspending strap
5 or cord suffices to apply our improvement and support the bag elastically if a loop of such strap or cord be formed at the side when applying the spring, as shown in the drawings.

We are aware that several inventions have
10 been made for applying a spring to support a feed-bag; but in all prior inventions a special construction of the bag or the strap was necessary, which is not the case in our invention.

15 Having thus set forth the nature of the invention, what is claimed herein is—

The combination, with the opposite edges

of a feed-bag, of the metal ears C having each a foot D secured to the bag, the suspender B having its ends attached to the feet D and
20 spiral springs having each one end secured to one of the ears and the opposite end attached to the strap to form a slack loop in the same adjacent to the edge of the bag, and thus suspend the same elastically.
25

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

LORENZO CUTLER.
CLARENCE W. SMITH.

Witnesses:

L. LEE,
WALTER H. TALMAGE.