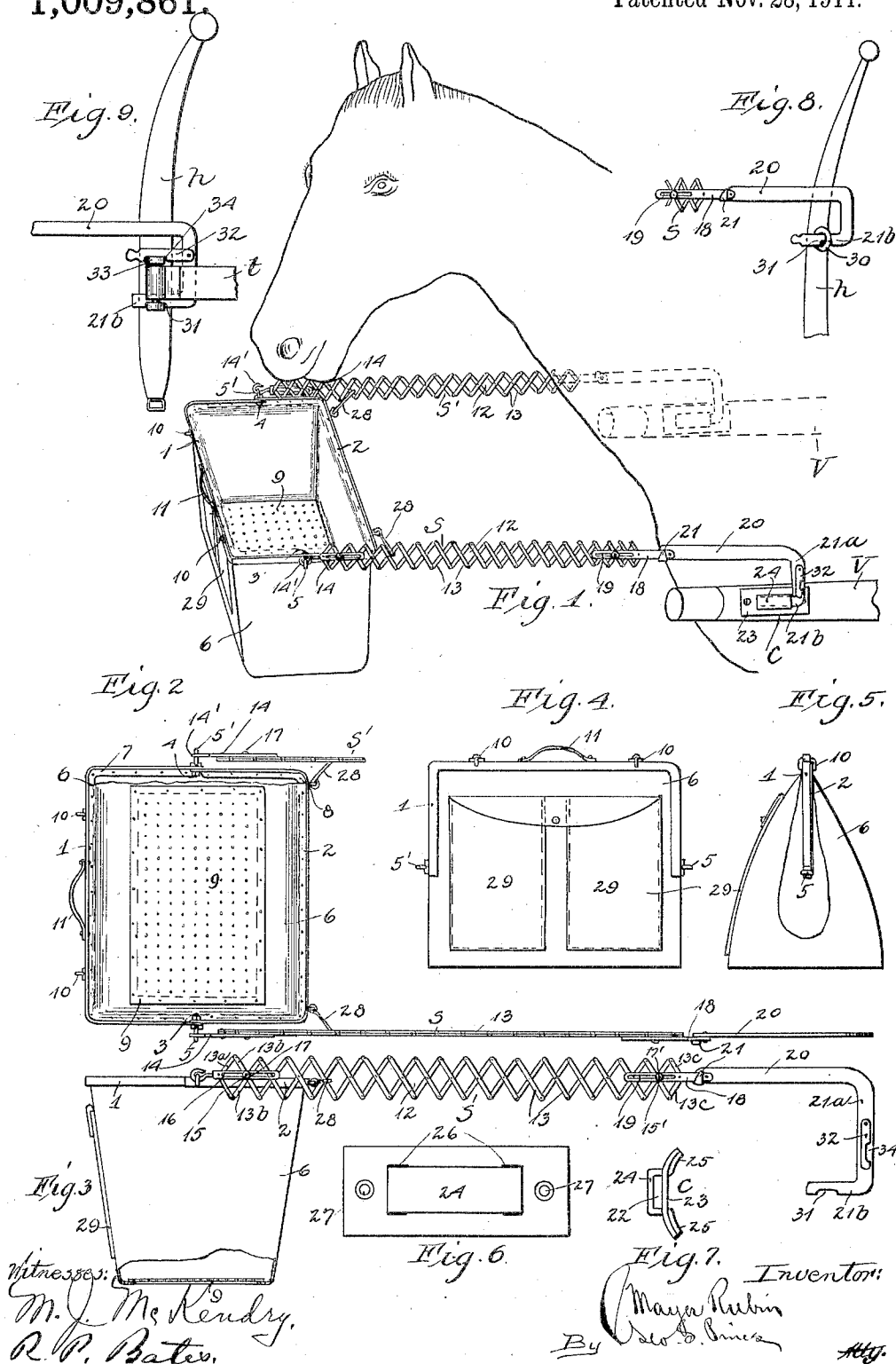


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FEED BAG FOR HORSES.
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1,009,861.

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UNITED STATES PATENT OFFICE.

MAYER RUBIN, OF HAMMOND, INDIANA.

FEED-BAG FOR HORSES.

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Specification of Letters Patent.

Patented Nov. 28, 1911.

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To all whom it may concern:

Be it known that I, MAYER RUBIN, a citizen of the United States, residing at Hammond, in the county of Lake and State of Indiana, have invented a new and useful Improvement in Feed-Bags for Horses, of which the following is a specification.

My invention relates to feed bags and contemplates various improvements in construction and arrangement.

The primary object of my invention is to provide a construction and arrangement which will not in any way interfere with the breathing of pure air by the horse at all times and which will prevent dust and dirt from being breathed by the horse or from entering the eyes of the horse.

Another object of my invention is to provide a construction which will enable the bag and its supporting framework to be folded into small space when not in use and to be quickly unfolded and applied to its support such as the wagon shafts or harness.

Another object is to provide for adjustability so that the bag can be fitted in place for animals of various size.

Another feature is the provision of means for enabling the bag to be applied for single teams or double teams without the use of extraneous or additional parts.

Another object is to construct the bag so that it can be closed when carrying the grain, and opened when it is to be used for feeding an animal; also to provide pockets on the back for containing the various supporting members for the bag when the bag is transported.

My invention will be clearly understood from the following specification together with the accompanying drawings, in which drawings,

Figure 1 is a perspective view of the feed bag outfit secured to the shafts of a vehicle, and showing also the forepart of a horse, Fig. 2, is a plan view of the bag with the folding supporting members in open position, Fig. 3, is a side view of the parts shown in Fig. 2, Fig. 4, is a front view of the bag in closed position, Fig. 5, is a side view of the closed bag, Fig. 6, is an enlarged view of the supporting cleat to be secured to the vehicle shafts, Fig. 7, is an end view thereof, Fig. 8, shows the end of a supporting member and its engagement with a small harness clip, and Fig. 9, is a similar view

showing the manner of engagement with a larger tug staple.

The bag structure itself is preferably in the form of a satchel or grip and comprises the U frames 1 and 2 pivoted at their ends by pins 3 and 4 whose outer ends terminate in eyes 5 and 5'. The flexible bag 6 which may be of leather, canvas or other suitable material, is secured at its upper edges to the flanges 7 and 8 of the frames 1 and 2, the floor of the bag being preferably perforated, and preferably in the form of a perforated aluminum plate 9 to whose edges the lower edges of the bag are riveted. This perforated floor gives ventilation to the horse when feeding and also acts as a sieve to clean the grain. When the bag is closed, as shown in Figs. 4 and 5, the frame 2 fits into the frame 1, and suitable locking means, such as the U clips 10, may be provided to lock the frames together. A handle 11 may also be provided. When the bag is opened to the position shown in Figs. 1 and 2, the sides of frame 2, which overlap the flanges 7 of frame 1, will prevent the frames from being swung beyond a horizontal plane.

A pair of supporting members S and S' serve to suspend the bag in proper position before the animal. These members are exactly alike and each comprises a longitudinal extensible body part 12 preferably built up of bars 13 pivoted together at their ends and centers in a well known manner so that the bars can be separated to lengthen the supporting members or to be closed together to shorten the members. At its forward end each body part 12 supports a plate 14 terminating at its outer end in a hook 14' for receiving one of the eyes 5, 5' on the bag. The inner ends of the outer bars 13^a are rigidly pivoted to the front end of the plate 14 and the centers of the next bars 13^b carry the pivot pin 15 which extends through the longitudinal slot 16 in the plate, a head 17 on the pin locking the pin to the slot. The inner ends of the inner bars 13^c are rigidly pivoted to the outer end of a plate 18 which has the longitudinal slot 19 through which extends the pin 15' of the adjacent bars, the head 17' on the pin locking the pin to the slot. The limit of extensibility of the supporting members S and S' is determined by the engagement of the pins 17 and 17' with the inner ends of the slots 16 and 19 of the plates 14 and 18.

A supporting bracket 20 is pivoted near

its inner end to the outer end of each plate 18, the end 21 of the bracket being bent upwardly to form a locking pocket for receiving the plate 18 to lock the bracket and
 5 plate in horizontal position as shown. The outer part of each bracket is bent downwardly at 21^a and inwardly at 21^b, the parts 21^b being adapted to enter the passageways 22 in the cleats C secured to the shafts V of
 10 the vehicle. Each cleat comprises a base plate 23, and a U shaped piece 24 having tongues 25 passing through slots 26 in the base plate and bent outwardly against the plate as shown in Figs. 6 and 7, the U piece
 15 and plate forming the passageway 22. The plates have screw holes 27 whereby they may be readily secured to the vehicle shafts as shown in Fig. 1.

When the bag is to be used with a single
 20 horse vehicle, the tongues 21^b are slid into the cleats as shown, and the bag pulled outwardly until in proper position for the horse to feed from. The bag is then opened and hooks 28, pivoted to the bag frame 2, are
 25 hooked to bars of the frames S and S' to lock the frames in their extended position and to maintain the bag in open position and also to prevent swinging thereof. The weight of the bag and contents will auto-
 30 matically assist in holding the frames 1 and 2 in horizontal position and the bag open. When the bag is to be closed, the frames S and S' are disengaged from the shafts and unhooked from the eyes 5 and 5' of the bag,
 35 whereupon the bag can be closed and locked by the clips 10. The frames S and S' are closed and shortened and the brackets 21 swung through 180° to lie adjacent the bars 13. In this folded condition the frames S
 40 and S' can be inserted in pockets 29 provided on the bag, the bag with its supporting members being therefore always together and readily transportable.

When the bag is used with a double team
 45 vehicle, it is preferably supported from the harness of the horses as, for example, from the hames. Where the hames h have small clips 30 (Fig. 8) the tongues 21^b are slipped therein and the frames S and S' will be
 50 sufficiently supported. However, to prevent disconnection, a groove 31 is provided in the lower edges of the tongues into which the clip 30 engages. Where larger tug staples are available on the hames or other parts
 55 of the harness, a latch 32 must be provided to hold the tongues in place. As shown in Fig. 9 the slot 31 of tongue 21^b engages the lower part of staple 33 between the tug t and the base of the staple while the slot 34
 60 of latch 32 receives the upper part of the staple, the frames S and S' being thus rigidly supported and held in horizontal position.

I thus provide a feed bag outfit in which
 65 the bag, when not in use, can be locked to

prevent spilling of the contents and in which the supporting members can be folded together into compact form to be contained in pockets on the bag when the bag is being transported. The supporting members
 70 adapt themselves for supporting the bag from cleats secured to vehicle shafts or from rings or other attachments on the harness of the animal to be fed.

I do not desire to be limited to the precise
 75 construction and arrangement shown and described as other forms and modifications are possible which would still come within the scope of my invention.

I therefore claim the following:

1. In combination, a feed bag having supporting eyelets at its sides, extensible supporting beams formed of bars pivoted together at their ends and centers and having
 80 hooks at one end for engaging said eyelets, supporting brackets pivoted to the other ends of said beams and having tongues, rigid supporting members for receiving said
 85 tongues to cause said beams to be held in substantially horizontal position, and latch arms on said brackets for engaging said rigid supporting members to lock the brackets thereto.

2. In combination, supporting beams each having an extensible body part formed of
 95 bars pivoted one to the other at their ends and centers and having a hook at one end and a supporting bracket at the other and provided with a tongue said brackets being pivoted to the body part to be swung to form
 100 extensions to the body parts and to be swung adjacent said body parts where said body parts are shortened, rigid supporting members for receiving said tongues to cause said
 105 beams to be held in substantially horizontal position and a feed bag having eyelets for receiving said hooks to be suspended from the free ends of said beams, and pockets on said feed bag for containing said beams when in shortened, folded condition.

3. In combination, a pair of supporting beams each having a body part composed of short bars pivoted one to the other at their
 110 end and centers whereby said body part may be lengthened and shortened, each beam having a hook at one end and a supporting bracket at the other end, cleats adapted to be secured to a rigid support to receive said
 115 brackets to thereby support said beams in substantially horizontal position, a feed bag having eyelets for receiving said hooks and latch arms on said brackets for engaging
 120 said cleats to lock said brackets thereto.

4. In combination, a pair of extensible supporting beams each having a bar at its
 125 outer and inner ends and the outer bars each terminating in a hook, a feed bag having eyelets for receiving said hooks, a U shape supporting bracket for each beam secured at the end of one limb to the rear bar of the
 130

beam, the other limbs of the brackets being notched, stationary supporting members having openings for receiving said notched limbs to support said brackets and beams in horizontal position, and a latch tongue pivoted to each bracket for engaging with the supporting members to lock the brackets thereto.

5
10 5. In combination, a pair of extensible supporting beams each terminating at its front end in a hook, a feed bag having eyelets for receiving said hooks, a supporting

bracket for each beam secured to the rear end thereof, stationary supporting members for receiving said brackets, and hooks on said feed bag for engaging with the beams to lock said beams in extended position.

In witness whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

MAYER RUBIN.

Witnesses:

GEO. S. PINES,
M. MCKENDRY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents.
Washington, D. C."