

J. H. HUCKE, JR.
 FEED BAG FOR HORSES.
 APPLICATION FILED NOV. 5, 1914.

1,155,238.

Patented Sept. 28, 1915.

Fig. 1.

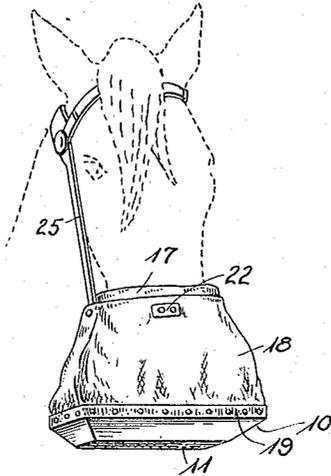


Fig. 4.

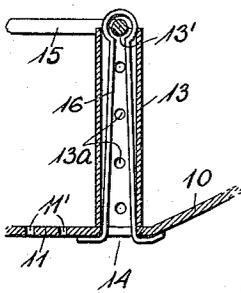


Fig. 2.

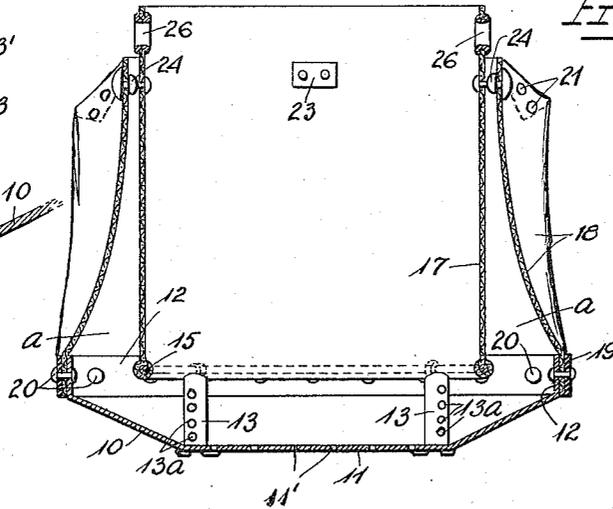
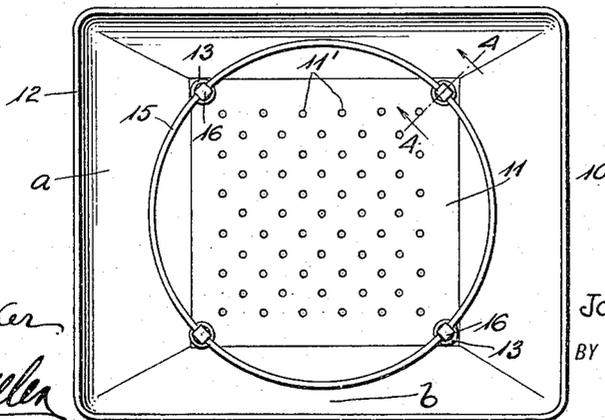


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN H. HUCKE, JR., OF NEW YORK, N. Y.

FEED-BAG FOR HORSES.

1,155,238.

Specification of Letters Patent. Patented Sept. 28, 1915.

Continuation of application Serial No. 768,255, filed May 17, 1913. This application filed November 5, 1914.
Serial No. 870,456.

To all whom it may concern:

Be it known that I, JOHN HENRY HUCKE, Jr., a citizen of the United States, and a resident of the city of New York, borough
5 of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Feed-Bag for Horses, of which the following is a full, clear, and exact description.

10 This invention relates to the care of live stock and has particular reference to self feeding devices for horses or other draft animals.

Among the special objects of this invention is to provide a device of the character
15 indicated which will enable a horse to reach and eat all of the feed provided for him in an easy and natural manner and without the necessity of his tossing his head or otherwise inconveniencing him in reaching any
20 or all of the feed regardless of the depth or amount of the feed in the bag.

More specifically stated, the object of the invention is to provide a feeding device having
25 what may be termed a magazine construction which will deliver into proximity to the horse's mouth a moderate amount of feed while the bulk of the feed is maintained in the magazine.

30 A still further object of the invention is to simplify and cheapen this class of devices whereby a satisfactory article of commerce of this nature is provided and which, when once adjusted to fit a certain horse,
35 no further adjustment or attention is required beyond filling the same with the feed and hanging it upon the horse's head.

The foregoing and other objects of the invention will hereinafter be more fully described and claimed and illustrated in the
40 drawings forming a part of this specification in which like characters of reference indicate corresponding parts in all the views, and in which—

45 Figure 1 is a perspective view illustrating one form of this invention as it would appear in use; Fig. 2 is a vertical transverse section of the same; Fig. 3 is a plan view of the bottom or pan portion of the device; and
50 Fig. 4 is a vertical sectional detail on the line 4—4 of Fig. 3.

The several parts of this device may be made of any suitable materials, and the relative sizes and proportions, as well as the
55 general design of the mechanism, may be

varied to a considerable extent without departing from the spirit of the invention hereinafter more fully described and specifically claimed.

A device made in accordance with this invention includes a pan or base frame 10
60 of rigid material such, for instance, as sheet metal, and of any suitable configuration as viewed in plan, but indicated in a preferred form in Fig. 3 as being rectangular and of
65 frusto-pyramidal form in elevation. Said base pan device includes a flat bottom 11 substantially square and a vertical rim 12
of oblong form having its longer axis extending transversely of the horse's head.
70 Between said bottom 11 and the rim are inclined connecting walls leading downwardly toward the bottom 11 and toward the center of the pan or base.

At or near the corners of the bottom 11
75 are vertical standards 13 shown in the form of tubes of equal length and secured rigidly as by soldering or otherwise in registry with holes 14 formed through said bottom. These standards may be of any desired length or
80 height with respect to the height of the flange 12 above the bottom 11, but are shown herein as being slightly lower than the top of said flange. As shown best in Fig. 4, the top of each standard is notched at 13' on
85 opposite sides to form a seat for a ring 15 lying in a substantially horizontal plane or parallel to the bottom 11 and within the flange 12. The ring 15 is secured in the notches 13' in all of the standards by any
90 suitable means, such means preferably including a staple 16 for each standard, said staple embracing the ring adjacent the top of the standard and the legs of the staple passing downwardly through and beyond
95 the lower end of the standard where they are bent outwardly and soldered or otherwise secured to the bottom of the base pan. These staples 16, furthermore, serve to
100 strengthen the connection between the standards and the bottom 11.

I provide a nose piece 17 of canvas or other suitable strong flexible material made in substantially tubular or open-ended form. The lower end of the nose piece is permanently connected in any suitable manner to
105 and around the ring 15, said nose piece extending thence upwardly, embracing the horse's nose which it is designed to comfortably fit. The bag proper indicated as a 110

whole at 18 surrounds the nose piece 17 and is secured in any suitable rigid and permanent manner to the flange 12. The means shown for this purpose includes a binding strip 19 of leather or metal of a width substantially equal to the vertical width of the flange, the same being applied on the outside of the lower edge of the bag 18, and the three parts are rigidly connected as by rivets 20. The upper end of the bag converges so as to substantially correspond in diameter to the nose piece which it surrounds. One convenient manner for shaping this upper end of the bag is to fold in the corners, leaving the main portion of the bag below the top of maximum size and capacity. In other words, the mouth of the bag is substantially equal in size to the top of the nose piece. The front and rear portions of the device are provided with fasteners 22 and 23 for permanently and rigidly securing the adjacent portions of the nose piece and bag together. These fasteners preferably include leather or other plates secured together by means of rivets passing through the same and both parts connected thereby. At the sides of the device the nose piece and main bag are detachably connected by snap buttons 24 or other suitable temporary fasteners.

As shown in the drawings, the spaces *a* between the side walls of the bag 18 and the nose piece 17 are much wider than the front and rear spaces *b*, whereby the mass of the feed is carried at the sides of the horse's head, providing a much more satisfactory and efficient device than if the magazine portion thereof were any other form. In other words, should the horse toss his head, the feed will not be caused to shift and disturb the proper equilibrium of the bag and subsequent delivery of the feed to the horse's mouth always located adjacent the bottom 11 of the device.

To facilitate the horse's breathing, I may perforate the bottom 11 as indicated at 11', but whether or not the bottom is perforated the principal ventilation will be upwardly through the standards 13, the air passing outwardly through a series of holes 13^a formed in the sides of the standards in the same plane as the notches 13', whereby the passage of air will not be interfered with by the legs of the staples 16.

From the foregoing description of the structure, the operation of the same may be briefly summarized as follows: This device is adapted especially for use by truckmen, deliverymen or the like, who are out on their routes and away from home with their horses practically all day. A driver, therefore, before leaving the barn in the morning will put a feed of grain into the device for each horse, it being so introduced

while the bag is standing in an upright position on the bottom 11, the nose piece for such purpose being crimped together from the sides after the temporary fasteners 24 are loosened, and the feed is then dumped into the space or magazine between the nose piece and the sides of the bag 18, the bulk of the feed occupying the spaces *a* above referred to. The device is then closed by re-fastening the snap buttons 24 whereby the feed is substantially locked or sealed within the space between the nose piece and the bag 18, a small layer or film, however, of the feed covering the bottom of the pan. After closing the top as stated, the bag may be picked up and placed or hung anywhere desired on the vehicle by means of the strap 25 attached to the eyelets 26, and whereby the feed bag may be adjustably fitted to the horse's head when in use, bringing the bottom 11 at a definite elevation with respect to the horse's mouth. The horse will then have the oats or feed at the proper place and always supplied within reach of his lips and tongue in a moderate quantity as long as there is any feed left in the bag or magazine. No matter how much the horse may toss his head, an expedient seldom resorted to by the horse when supplied with this device, there is no possibility of any of the feed being spilled or scattered from the bag, a fact of much importance in many municipalities wherein the officials require the drivers to sweep up the scattered feed resulting from the use of feed boxes or other common devices.

This application constitutes a continuation of my previous application filed May 17, 1913, Serial No. 768,255, and allowed July 2, 1914.

I claim:

1. The herein described feed bag for horses comprising, in combination, a rigid base frame, the main portion of which is in the form of a frustum of a rectangular pyramid and including a rim at its upper edge, the frame also including a circular ring of a smaller size than said rim and lying within the rim, there being provided vertical spaces between the ring and the rim, the side spaces being wider than those in the front and rear, a nose piece having upper and lower ends, the lower end being secured permanently to said ring, a magazine bag secured to the rim of said frame and extending thence upwardly in spaced relation to the nose piece, said magazine bag providing spaces on the sides for the bulk of the feed and serving to deliver the same into the bottom of the frame beneath the nose piece and ring, and means to support both the nose piece and the bag in operative position.

2. In a feed bag for horses, the combination of a metallic base pan having a flat bot-

tom, a vertical rim and inclined members connecting the bottom and rim directing the feed toward the center of the bottom, a rigid ring above the bottom and of a diameter slightly less than the shorter diameter of the flange, a nose piece secured at its open lower end to the ring, a magazine bag secured to the flange and extending upwardly in spaced relation to the nose piece but closely embracing the nose piece at its upper end, and means including hollow ventilating standards serving to rigidly secure the ring and nose piece in spaced relation to the bottom.

3. In a feed bag for horses, the combination of a rigid base member including a bottom section, a rim and inclined members connecting the bottom and the rim, a series of rigid standards of tubular construction communicating with as many holes in the bottom of the base member and extending upwardly therefrom, said standards having a series of holes formed in opposite sides thereof, a ring supported upon the upper ends of said standards, fastening means comprising a staple for each standard embracing the ring and having its legs passing downwardly through the standard, the lower ends of the legs passing beyond the bottom and rigidly secured thereto, a tubular nose piece secured to the ring, means connected to the nose piece to support the device upon the horse's head, and a magazine bag attached to the base rim and loosely surrounding the lower end of the nose piece but closely fitting the nose piece at its upper end.

4. In a feed bag for horses, the combination of a rigid base member having a bottom, a rim and inclined walls leading toward the bottom from the rim, a ring above the bottom and within the rim, a tubular nose piece secured to the ring, a magazine bag secured to the rim and extending upwardly on the outside of the nose piece, means permanently securing the nose piece and magazine bag together at the front and rear, separable fastening means securing the sides of the nose piece and bag together making a substantially tight closure between the nose piece and the top of the bag, and means rigidly securing the ring and nose piece in spaced relation to the base bottom, said means including a series of tubular standards, each standard having a pair of notches at its top in which the ring is seated and also having a series of lateral holes arranged in the same plane as said notches, and a staple for each standard, the staple embracing the ring between the notches and extending downwardly within the standard and projecting beyond the lower end thereof, the portions of the staple passing through the standard lying along the unperforated parts thereof.

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

JOHN H. HUCKE, JR.

Witnesses:

GEO. L. BEELER,
PHILIP D. ROLLHAUS.

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