

H. KIEHL.
FEEDING DEVICE.
APPLICATION FILED JUNE 8, 1910.

998,013.

Patented July 18, 1911.

2 SHEETS-SHEET 1.

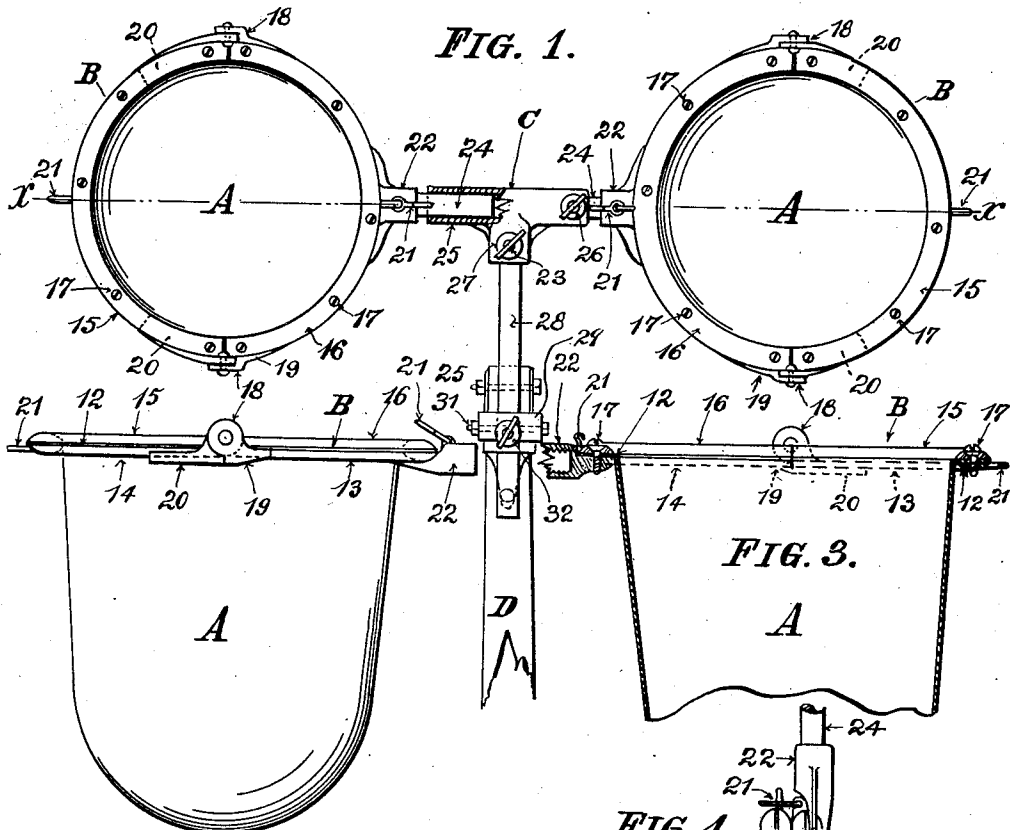


FIG. 2.

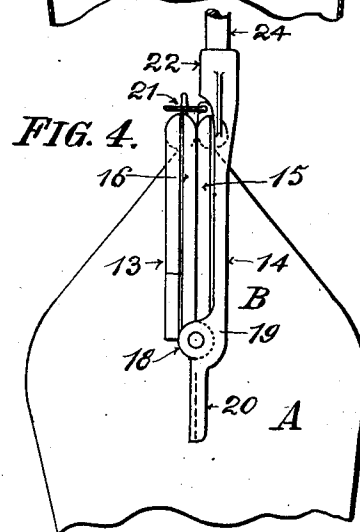


FIG. 4.

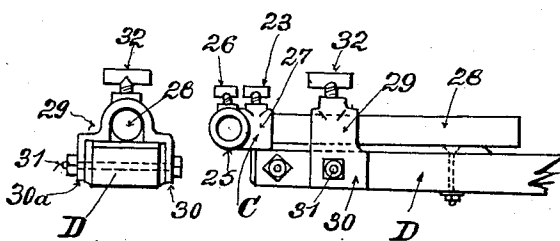


FIG. 6.

FIG. 5.

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2 SHEETS—SHEET 2.

FIG. 7.

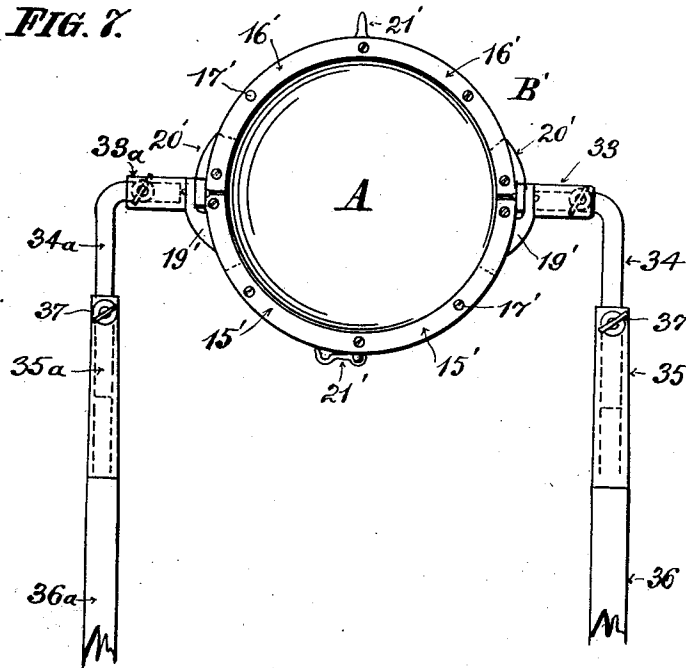
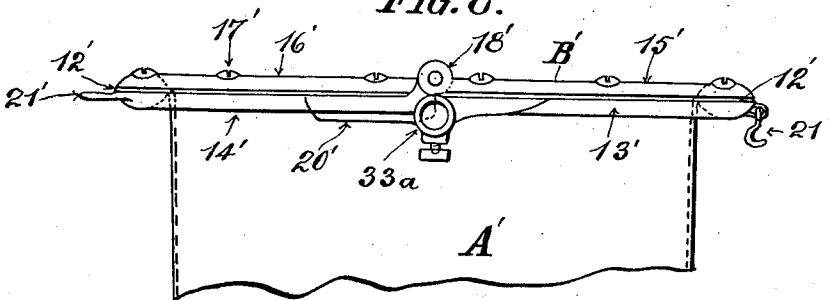


FIG. 8.



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UNITED STATES PATENT OFFICE.

HUGO KIEHL, OF CHICAGO, ILLINOIS.

FEEDING DEVICE.

998,013.

Specification of Letters Patent.

Patented July 18, 1911.

Application filed June 8, 1910. Serial No. 565,745.

To all whom it may concern:

Be it known that I, HUGO KIEHL, a subject of the Emperor of Germany, and resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Feeding Devices; and I do hereby declare that the following description of my said invention, taken in connection with the accompanying 10 sheets of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has general reference to feeding devices; and it consists, essentially, in the novel and peculiar combination of parts and details of construction, as hereinafter first fully set forth and described, and then pointed out in the claim.

In the drawings already referred to, which serve to illustrate this invention more fully, Figure 1 is a plan of a feeding device for two horses, constructed in accord with my invention. Fig. 2 is a side elevation of one of the feed-bags detached. Fig. 3 is a sectional elevation of the same taken on line *x-x* of Fig. 1. Fig. 4 is a side elevation of the feed bag showing the same in closed condition. Fig. 5 is a side elevation of the forward end of a pole and the clamping means thereon for removably securing the feed bag to said pole. Fig. 6 is an end elevation of the same. Fig. 7 is a plan of a one-horse device, in which the feed bag is removably secured to the forward ends of the thills. Fig. 8 is a side elevation of a feed bag adapted for use in connection with said thills.

Like parts are designated by corresponding characters and symbols of reference in all the figures.

The object of this invention is the production of a feeding device for horses which device is adapted for use in connection with the pole or thills of a vehicle, whereby the animals need not be unhitched from the vehicle to be fed, the device being detachable from the vehicle and adapted to carry the feed in said bag, the latter being adapted to be closed for this purpose to prevent contamination of said feed.

A, in the drawings designates the feed bag which may be made from canvas, leather, or other suitable material. This bag has at its upper, open, end an outwardly turned flange 12, which flange is clamped be-

tween the members of a retaining ring B, of peculiar construction, said ring comprising two semicircular lower parts 13, 14, and two upper semicircular parts 15, 16, said upper members being removably secured to said lower members by screws 17, thereby removably holding said bag A by its flange 12 to said ring B.

The semicircular half 13 of the ring B is hinged to the other semicircular half 14 by means of hinges 18, one leaf, 19 of which has an extension 20, which underlies the opposite half of said ring B and sustains the same in open position, there being a catch 21, on the lower ring-halves, best seen in Fig. 4, to retain the folded up halves and the bag in closed condition. By thus hinging the ring-members I am enabled to place the feed for a horse in the bag at the barn or stable and carry this feed in sanitary condition in the closed bag so that dust and other objectionable matter can not reach the feed while being carried about.

The semicircular member 13 of the hinged split-rings B has in its middle a radially projecting socket 22, wherewith engages one end of a short rod 24, preferably in screw-threaded connection, said socket 22 being adapted to removably retain said rod, the other end of said rod 24 engaging one member of a T, C, as illustrated in Fig. 1 at 25. This member 25 is provided with a thumb screw 26, adapted to securely fasten the rod 24 in said member 25. As shown in Fig. 1, the device when used for two horses has two of the bags A which are alike in construction, and the description heretofore given in connection with one bag applies equally to the other.

In the branch 27 of the T C there is securely but removably fastened a rod 28, by means of a thumb screw 23, at one end, the other end of said rod being removably and adjustably secured to the forward end of the pole D of a two-horse vehicle, by a clamping device comprising a yoke 29, Figs. 1, 5 and 6, said yoke having downwardly-projecting members 30, 30^a, engaging the sides of said pole and fastened thereto by bolt 31, there being a thumb screw 32, on said yoke for holding the rod 28 in adjusted position.

The device thus described is, as heretofore stated, adapted for use in connection with a two-horse vehicle, but when to be used in a single-horse rig, in which the animal is har-

nessed to the thills I employ one of the bags only and then modify the construction of the bag, as follows: On the lower semicircular member 13' of the bag-ring, I form two sockets 33, 33^a, at the ends of said member 13', said sockets projecting radially therefrom. In these sockets are secured rods 34, 34^a, bent at approximately right angles, the opposite ends of said rods engaging tubular members 35, 35^a, secured to the ends of the thills 36, 36^a, said rods telescoping in said tubular members 35, 35^a, to afford proper adjustment of the bag A relative to the position of the horse's head so that he may conveniently reach the bag A, set screws 37 being provided in said tubular members 35, 35^a, to retain said rods removably in adjusted position.

When not in use the rod 28 with the T C is pushed inwardly upon the pole D, as shown in Fig. 5, in which position these parts are out of the way. The bags A are then carried in the vehicle. When the vehicle leaves the barn or stable in the morning, the feed is placed in the bags and the latter then closed to protect the feed from dust and other contaminating matters. When to be used the rod 28 with the T C is pulled out sufficiently to accommodate the position of the horse's heads and then the rods 24 inserted in the members 25 of the T C and secured in position by the thumb screws 26. Now the bags are opened by disengaging the catches 21, when the outer halves of the bags are sustained in position upon the underlying extensions 20 of the hinges 18.

The rods 24 and 28 are preferably made

from so-called wrought iron pipe which combines sufficient strength with lightness. The parts forming the bag-rings can be conveniently produced in malleable iron or steel castings, so that the complete article can be produced at a reasonable price.

I am aware that many of the details of construction heretofore described may be changed without departing from the scope of my invention, and I do not, therefore wish to confine myself to these precise details in the final embodiment of my said invention.

Having thus fully described this invention, I claim as new and desire to secure to me by Letters Patent of the United States—

A device for feeding horses, comprising, in combination, two bags, an annular ring at the open end of each bag, to which said bag is secured, said ring having a socket, rods adapted to engage said sockets at one of their ends, a T adapted to receive the other ends of said rods, means adapted to retain said rods in adjustable position in said T, a further rod adapted to engage the third branch of said T, and a clamping device adapted to secure the T to the outer end of a pole, said clamping device being provided with means adapted to hold said latter rod in adjusted position, as described.

In testimony that I claim the foregoing as my invention, I have hereunto set my hand in the presence of two subscribing witnesses.

HUGO KIEHL.

Witnesses:

MICHAEL J. STARK,
A. G. PETERSON.