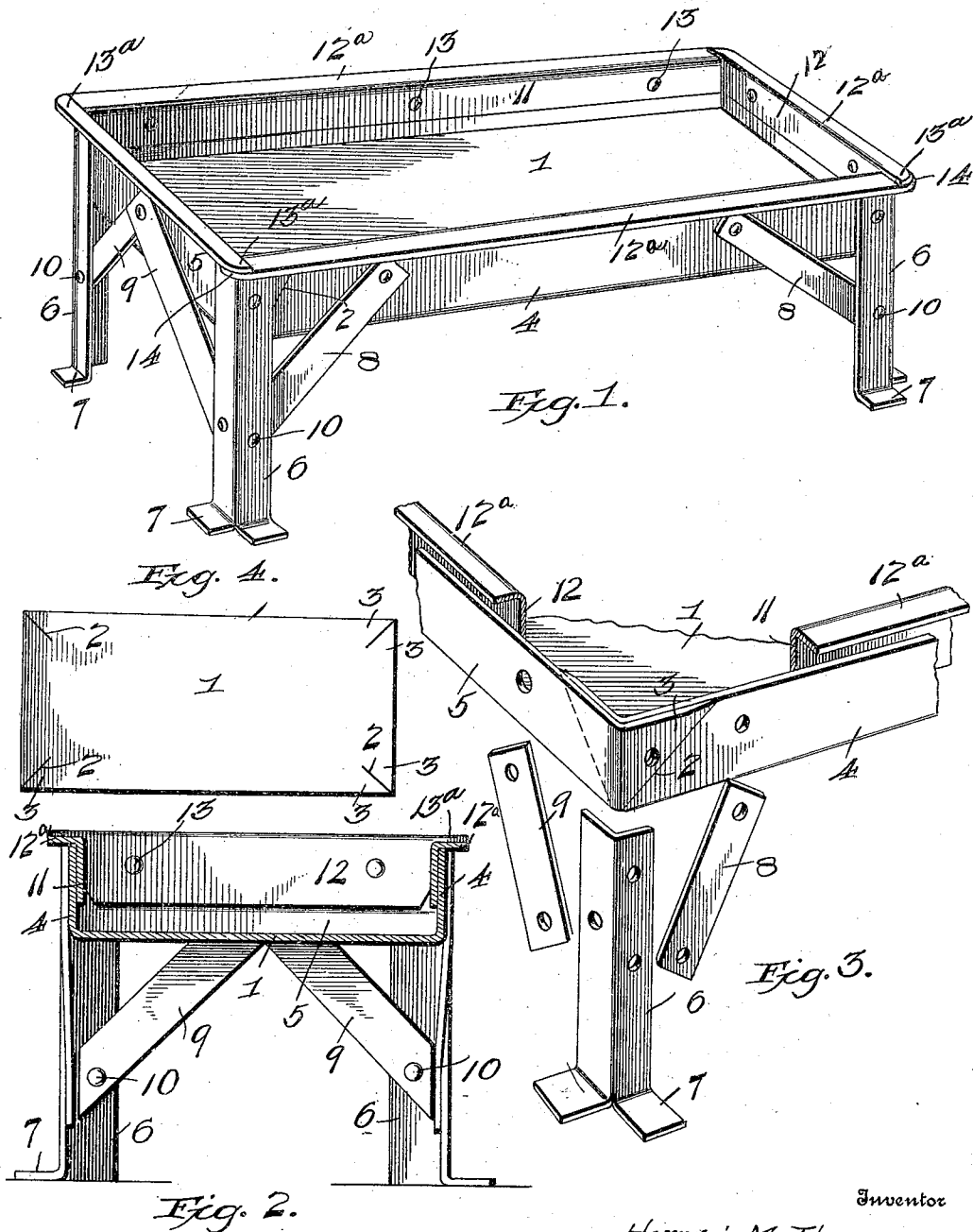


No. 820,075.

PATENTED MAY 8, 1906.

H. M. THAYER.
METALLIC FEED BOX.
APPLICATION FILED AUG. 18, 1905.



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UNITED STATES PATENT OFFICE.

HARRY M. THAYER, OF WOODHULL, ILLINOIS.

METALLIC FEED-BOX.

No. 820,075.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed August 18, 1905. Serial No. 274,732.

To all whom it may concern:

Be it known that I, HARRY M. THAYER, a citizen of the United States, residing at Woodhull, in the county of Henry and State of Illinois, have invented certain new and useful Improvements in Metallic Feed-Boxes, of which the following is a specification.

This invention relates to the care of live stock, and has specially in view an improved metallic feed-box for stock-feeding purposes.

To this end the invention contemplates a metallic structure designed to replace the cumbersome and otherwise unsatisfactory wooden feed box or trough, which quickly becomes foul, while at the same time being susceptible to rotting and decay under weather conditions.

Therefore a general object of the invention is to provide a stock-feed box or trough constructed entirely of metal, so as to be practically indestructible under ordinary conditions of outdoor use; also, to provide a box which not only possesses great durability and strength, but is also exceedingly light and easily handled, besides being susceptible to thorough cleaning at all times.

Another object of the invention is to provide a metallic feed-box having no projecting or sharp parts which would injure the stock by coming in contact therewith while feeding; and a distinctive feature of the improved construction resides in providing the box-body with strongly-reinforced and thoroughly tight corners, which positively prevent the grain sifting through or leaking, irrespective of the character of grain or stock food being fed to the stock.

A further object of the invention is to provide a feed-box construction possessing special advantages in the handling of wet stock food, inasmuch as such food can be mixed directly in the box-body, and there will be no leakage of water from the latter.

With these and many other objects in view, which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts herein-after more fully described, illustrated, and claimed.

The essential features of the invention involved in the body construction of the box are susceptible to structural change without departing from the scope thereof; but a preferred embodiment of the invention is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a metallic feed-box constructed in accordance with this invention. Fig. 2 is a cross-sectional view thereof. Fig. 3 is a perspective view showing the corner construction and the parts cooperating therewith. Fig. 4 is a detail plan view of the metal blank from which the box-body is shaped.

Like reference-numerals designate corresponding parts in the several figures of the drawings.

In carrying out the present invention it is preferable to construct the body portion of the box (designated by the numeral 1 in the drawings) of a single seamless sheet of metal. The metal blank from which the body 1 is pressed into shape may consist of a sheet of galvanized iron or steel, and in the formation of the body from the blank the latter is preferably cut in a rectangular form and is provided in each of its corners with a diagonal slit 2, producing upon opposite sides of each slit the foldable corner-flaps 3, which are bent into overlapping relation to produce the corners of the box-body.

The metal blank having the corner-slits 2 and the corner-flaps 3 is stamped or otherwise suitably pressed into a trough-like form, thereby producing a box-body having the upstanding side and end walls 4 and 5, respectively. These walls are preferably arranged at substantially right angles to the bottom of the box-body or trough and by reason of being bent up from an integral blank leave no bottom seams or cracks through which there could be a leakage.

When the side and end walls 4 and 5 of the box-body are bent up into standing position, the flaps 3 are necessarily carried up into overlapping relation, and at each corner of the box-body these flaps are bent or folded onto the adjacent wall of the body—that is, the flap 3 of a side wall is bent onto the adjacent end wall, and vice versa—which provides a double thickness at the corners. To secure extra strength at these points, a corner-rivet 5 is passed through one of the flaps 3 at each corner and also through the adjoining body-wall and through the outer end of a metallic supporting-leg 6.

There is one of the metallic supporting-legs 6 located at each corner of the feed-box body, and each of said legs preferably consists of a metallic angle-strip fitting around and secured to the body-corner as described and provided at its lower end with an outturned

rest foot or flange 7. Also each supporting-leg is thoroughly braced in its upright position by the inclined brace-bars 8 and 9, riveted at their lower ends to the leg, as at 10, and at their upper ends riveted, respectively, to the side and end walls of the box-body.

To secure extra reinforcement and protection for the upstanding walls of the box-body and the top edges thereof, there are employed the side and end metallic angle guard-strips 11 and 12, respectively. The vertical flanges of the side and end guard-strips 11 and 12 are arranged against the inner sides of the body-walls and are permanently secured thereto through the medium of the fastening-rivets 13.

The horizontal flanges 12^a of the side and end strips overhang and project outwardly beyond the top edges of the body-walls, thus affording not only reinforcement to the box-body, but also insuring thorough protection to the stock while feeding. At the corners of the box-body the angle guard-strips 11 and 12 are provided with overlapping corner-tongues 13^a, having rounded outer edges 14. This construction contributes to the strength of the corners, besides presenting rounded edges at these points to protect the stock.

From the foregoing it is thought that the

construction and many advantages of the herein-described metallic feed-box will be readily apparent without further description, and it will be understood that changes in the form, proportion, and minor details of description may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

A metallic feed-box comprising a body portion pressed from a single blank of sheet metal and having overlapping riveted corner-flaps, upright metallic angle-strips fitting about the corners of the body on the exterior thereof and receiving the rivets for the overlapping corner-flaps, said upright angle-strips constituting legs for the body, and angled guard-strips riveted to the upstanding walls of the box-body at the sides and ends thereof, and overhanging the top edges of said walls.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY M. THAYER.

Witnesses:

W. A. OLSON,
A. A. MACKEY.