

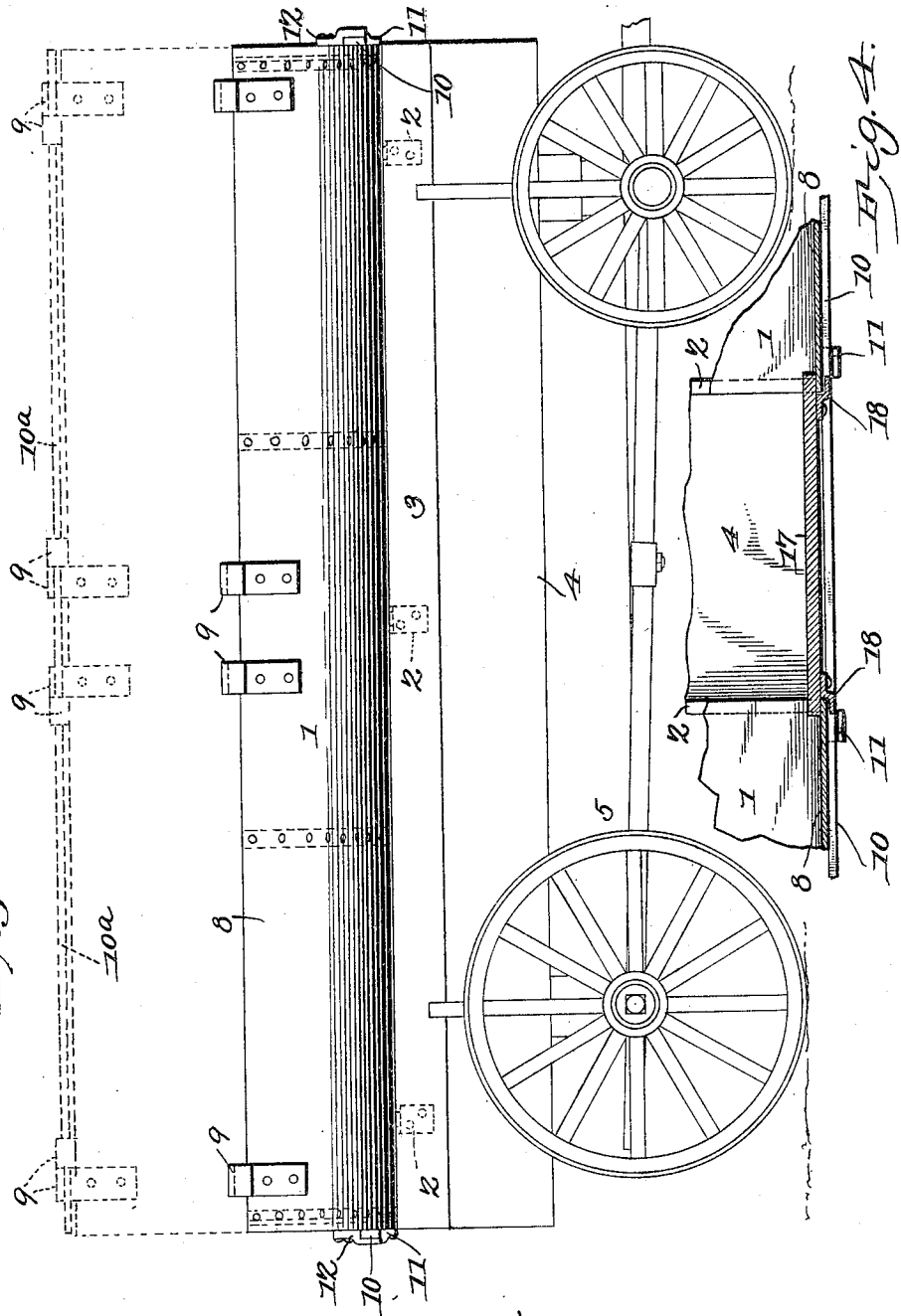
No. 822,262.

PATENTED JUNE 5, 1906.

S. ENGH.
COMBINED GRAIN TANK AND SHELTER TOP.
APPLICATION FILED MAR. 6, 1905.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses
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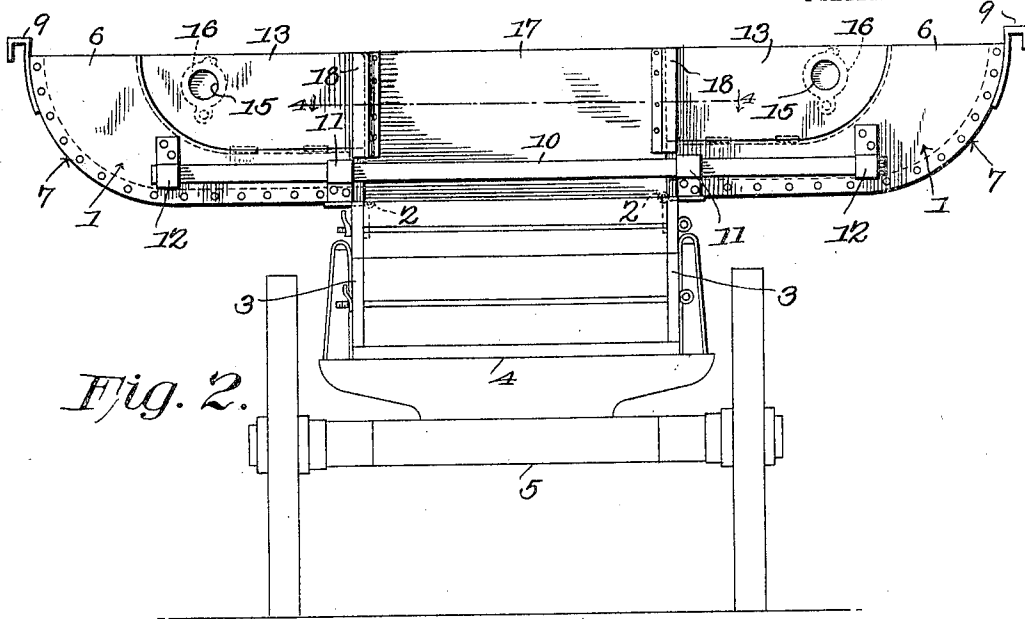


Fig. 2.

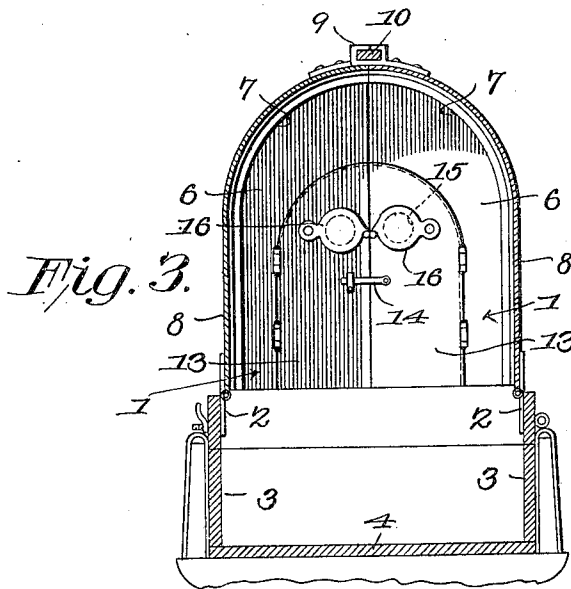


Fig. 3.

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UNITED STATES PATENT OFFICE.

SAMUEL ENGH, OF HOLCOMBE, WISCONSIN.

COMBINED GRAIN-TANK AND SHELTER-TOP.

No. 822,262.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed March 6, 1905. Serial No. 248,688.

To all whom it may concern:

Be it known that I, SAMUEL ENGH, a citizen of the United States, residing at Holcombe, in the county of Chippewa and State of Wisconsin, have invented a new and useful Combined Grain-Tank and Shelter-Top, of which the following is a specification.

This invention relates to an improved combined grain-tank and shelter-top, the same being in the nature of an attachment to ordinary farm-wagons; and the object of the invention is to simplify and improve the construction and operation of this class of devices.

With these ends in view the invention consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of embodiment of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that the right is reserved to any changes, alterations, and modifications to which recourse may be had within the scope of the invention and without departing from the spirit or sacrificing the efficiency of the same.

In said drawings, Figure 1 is a side elevation showing the improved device attached to an ordinary farm-wagon in position for operation. Fig. 2 is a rear elevation of the same. Fig. 3 is a transverse sectional view showing the device folded to constitute a shelter-top and looking in a forward direction. Fig. 4 is a sectional detail view taken on the line 4 4 in Fig. 2.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The improved device constituting this invention is composed, essentially, of two side members 1 1, adapted to be hingedly connected, as by means of ordinary leaf-hinges 2 2, with the sides 3 3 of an ordinary wagon-box or with the extensions of said sides, as shown in the drawings, where 4 designates the wagon-box and 5 the running-gear supporting the same.

The members 1 1, which coöperate to form the grain-tank or the wagon-top, as the case may be, may be constructed of sheet metal or any other suitable material or combination of materials. Thus, for instance, it

would be feasible to construct them of wooden frames having a covering of canvas or other suitable material stretched thereupon; but sheet metal is the material preferably employed, it being reinforced by a framework or by braces of wrought-iron bars, angle-iron, or the like. Each of said members 1 1 is composed of end pieces 6 6, having rounded upper or outer ends, as shown at 7, and side pieces 8, which are curved to fit upon the end pieces, with which they may be connected by bolting, riveting, or in any suitable, convenient, and durable manner. It is desired to be distinctly understood that no limitation is made with regard to the precise construction of the side members 1 1 or to the precise shape of said side members, provided only that said side members when folded together, as shown in Fig. 3 of the drawings, shall coöperate to constitute a wagon-top or "tent," as it is sometimes designated.

The members 1 1 are provided at their free edges with hooks 9, adapted to overlap when the members are folded together for the passage of a locking-bar 10, whereby the free edges of the members 1 1 are firmly secured or locked together, the joint being overlapped by the locking-bar, as shown, so as to prevent the admission of water. It is preferred to divide the locking-bar into two separate pieces, as shown in Fig. 1 in dotted lines, where each of said pieces is designated 10^a in order that said pieces may be independently used for the purpose of supporting the members 1 when extended to form a grain-tank, as shown in Fig. 2. By reference to said figure it will be seen that the end pieces 6 of the members 1 are each provided with an upwardly-disposed hook 11 near its hinged end and with a downwardly-disposed hook 12 intermediate its hinged and free ends. By placing one of the locking-bars 10^a in engagement with the hooks 11 while the side members 1 are being unfolded the ends of said locking-bar will be caused to engage the hooks 12, thereby supporting the side members 1 1 in extended position, as will be very readily seen by reference to Fig. 2.

The end pieces 6 6 of the side members 1 are provided with hinged doors 13, provided upon their inner sides with latching devices 14, whereby they may be retained in a closed position. Said doors are also provided with peep-holes 15 and with pivoted shutters 16, whereby said holes may be covered when desired. The peep-holes at the front end of

the device may, when desired, be utilized for the passage of the reins, this being especially desirable in stormy weather.

When the side members 1 1 are extended to constitute the sides of a grain-tank, as shown in Fig. 2, end-gates, as 17, are usually provided, said end-gates being slidably connected with the end pieces 6 by means of suitable cleats 18.

The operation and advantages of the invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed.

The device constituting the invention may be constructed at a moderate expense and may be easily applied to an ordinary farm-wagon by fastening means—such as screws, bolts, or the like—which will admit of its being detached when desired. The side members 1 1 when extended and combined with the end-gates 17 will constitute a grain-tank of great capacity and which will be absolutely tight, thus preventing waste of grain by leakage or overflow. When the side members are thus extended, the doors 13 will be secured in position by the end-gates, and said doors also preferably overlap the end pieces 6 upon the inner sides of the latter, so that they will readily resist any outward strain. When the side members 1 1 are folded together, as shown in Fig. 3, an extremely efficient shelter-top is provided, whereby the wagon equipped with the invention may be utilized for lodging purposes, the wagon-box being accessible through the doors at either end. The shelter-top is equally useful and efficient while driving either in stormy or in sunny weather.

Having thus described the invention, what is claimed is—

1. A grain-tank and shelter-top attachment for wagons, comprising two half-boxes having permanent end members, and means for connecting the free bottom edges of said half-boxes hingedly with the upper edges of the sides of an ordinary wagon-box.

2. A device of the class described including a pair of grain-tank members hingedly connected with the upper edges of the sides of a wagon-box, said tank members being provided with permanent end pieces and constituting, when extended, side members of a grain-tank; and means for supporting said side members in extended position.

3. The combination with a wagon-box, of side members hingedly connected with the sides of said wagon-box and coöperating to form a shelter-top; said side members being provided at their free edges with hooks adapted to overlap one another; and a locking-bar adapted to engage said hooks and to cover the joint between the free edges of the side members.

4. A device of the class described including two side members hingedly connected with

the upper edges of the sides of a wagon-box, each of said side members comprising end pieces and a side piece combining to form a box-like structure; and means for securing said side members when folded and for supporting them when extended to form a grain-tank.

5. A device of the class described including a pair of semibox-like members having hooks at the free edges and upon the ends thereof, and locking-bars adapted for alternate engagement with said hooks.

6. A device of the class described including a pair of hingedly-supported semibox-like members having overlapping hooks upon their free edges and oppositely-faced hooks upon their ends, in combination with a locking-bar adapted for alternate engagement with said overlapping and said oppositely-faced hooks.

7. A device of the class described including a pair of semibox-like grain-tank members having hinges connected therewith and provided at the ends thereof with doors interiorly overlapping the end pieces of the box-like members.

8. A pair of semibox-like grain-tank members having hinges connected therewith and provided at the ends thereof with doors having peep-holes and shutters for the same.

9. A pair of semibox-like grain-tank members hingedly supported upon the upper edges of the sides of a wagon-box and provided at their front ends with doors and with latching means for connecting the free ends of the doors when the grain-tank members are elevated to an upright position.

10. A pair of semibox-like grain-tank members hingedly supported upon the upper edges of the sides of a wagon-box and having door members at the ends thereof, means for supporting said members in extended position, and an end-gate adapted for engagement with the ends of the grain-tank members and with the lower edges of the doors connected therewith.

11. A pair of semibox-like grain-tank members hingedly supported upon the upper edges of the sides of a wagon-box, said tank members having permanent end pieces, means for supporting said members in extended position, and an end-gate engaging the ends of said grain-tank members.

12. A pair of semibox-like grain-tank members hingedly supported upon the upper edges of the sides of a wagon-box, means for supporting said members in extended position said means including a cross-bar engaging oppositely-faced hooks upon the ends of the grain-tank members, doors hingedly connected with said ends, and means for engaging and retaining said doors in position.

13. A pair of semibox-like grain-tank members hingedly supported upon the upper edges of the sides of a wagon-box and pro-

vided at the ends thereof with doors interiorly overlapping and hingedly connected with the ends of the grain-tank members, means for supporting said grain-tank members in extended position, and an end-gate
5 slidably engaging the ends of the grain-tank members and the doors connected therewith.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

SAMUEL ENGH.

Witnesses:

NELLIE M. EDMINSTER,
A. J. EDMINSTER.