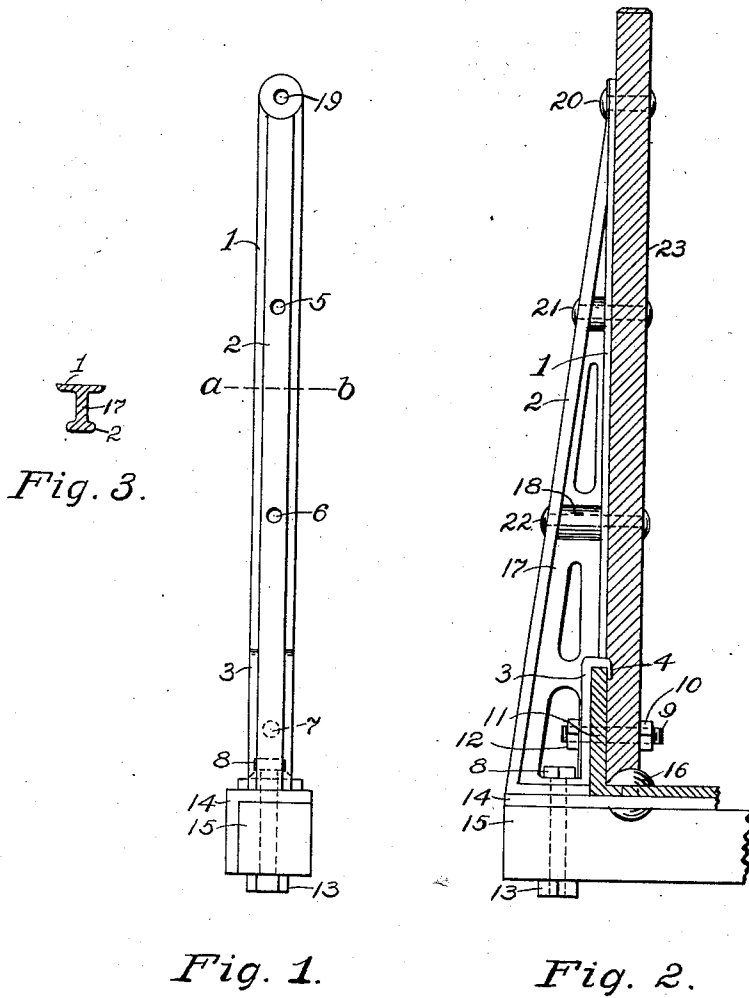


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STANDARD FOR BOXES OF MANURE SPREADERS.
APPLICATION FILED MAY 14, 1912.

1,049,747.

Patented Jan. 7, 1913.



Witnesses:
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UNITED STATES PATENT OFFICE.

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STANDARD FOR BOXES OF MANURE-SPREADERS.

1,049,747.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed May 14, 1912. Serial No. 697,178.

To all whom it may concern:

Be it known that I, GUNDER G. MANDT, a citizen of the United States of America, and a resident of Waterloo, Blackhawk county, Iowa, have invented certain new and useful Improvements in Standards for Boxes of Manure-Spreaders, of which the following is a specification.

My invention relates to improvements in standards for the boxes of manure spreaders, and the object of my improvement is to furnish a standard which is adapted to be firmly secured and locked to the side-board of a manure spreader. This object I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of my improved standard. Fig. 2 is an end elevation of said standard, and of its connections to parts of a manure spreader box, the side-board of the latter being shown in transverse section and other parts being broken away. Fig. 3 is a horizontal section of said standard, taken on a line *a-b* of Fig. 1.

Similar characters of reference designate corresponding parts throughout the several views.

My improved standard is especially designed for use with the box of a manure spreader. As shown in Fig. 2, the side-board 23 of such a box has its lower edge seated in a longitudinal angle-bar 11 whose horizontal flange is turned inward, the horizontal flange of said bar being secured to the end of a cross- or bed-bar 14 by means of a rivet 16, the said bed-bar being an angle-bar whose inner angle fits over another cross-bar 15.

The standard comprises an upright 1 having a web 17 on its outer face terminating in a thickened rib part 2. The upright and its web is widest at the bottom with its base resting upon the upper face of the bed-bar 14, a bolt 8 and nut 13 serving to secure its base to both said bars 14 and 15. The standard 1 is provided with horizontal bolt-holes 19, 5, 6 and 7, to be in registration with similar bolt-holes in said side-board 23, and which receive respectively the bolts or

rivets 20, 21, 22 and 9, the latter being a headless bolt secured at either end by the nuts 10 and 12, and the latter bolt also serving to secure the upper flange of the angle-bar 11 between both the standard 1 and the side-board 23. The web 17 is thickened at 18 in each instance to afford a stronger and wider body for the bolt-holes in said standard.

In order to more firmly lock the upright 1 to said side-board 23, I have provided on the inner face of said upright in juxtaposition to said side-board, a projection 3 having the form of a downwardly depending hook 4, which is adapted to fit over the upper edge of the angle-bar 11 when said parts are assembled. The said hook holds the angle-plates 11 securely against displacement upwardly and with the other securing means, makes the combined structure more rigid and prevents any working loose of any of said parts when under the heavy strains of service. The standard when so locked to said side-board, angle-plates and cross-bar, is thus rigid against either vertical, horizontal or torsional stresses, and renders the box of a manure spreader proof against shocks which would cause injury to the machinery thereof.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is:

1. A standard for the box of a manure spreader, comprising the combination with a spreader-box side-board and an angle-plate seat therefor secured thereto, of an upright secured to said side-board and provided with an integral hook adapted to engage the upper edge of said angle-plate to hold it engaged between said hook and said side-board.

2. A standard for the box of a manure spreader, comprising the combination with a spreader-box side-board and an angle-bar support therefor along the longitudinal lower edge thereof, and a cross-bar to which said angle-bar is secured, of an upright secured to said side-board, angle-bar and cross-bar, said upright being provided with an integral hook adapted to engage said angle-bar between it and said cross-bar.

3. A standard for the box of a manure

6 spreader, comprising an upright provided with a plurality of bolt-holes and with an integral hook, and bolts adapted to secure said upright to the side-board of a spreader-box, the said hook being adapted to interlock itself with the supports of said side-board.

Signed at Waterloo, Iowa, this 26th day of April, 1912.

GUNDER G. MANDT.

Witnesses:

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