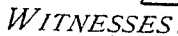
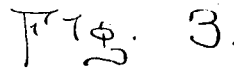


1,045,753.

Fig. 1.



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UNITED STATES PATENT OFFICE.

FRITZ A. SCHOETTGER, OF ENTERPRISE, NEBRASKA.

PUSHER AND MANURE-SPREADER.

1,045,753.

Specification of Letters Patent.

Patented Nov. 26, 1912.

Application filed May 1, 1912. Serial No. 694,394.

To all whom it may concern:

Be it known that I, FRITZ A. SCHOETTGER, a citizen of the United States, residing at Enterprise, in the county of Keyapaha and State of Nebraska, have invented certain new and useful Improvements in Pushers and Manure-Spreaders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in manure spreaders, and relates more particularly to that part of the spreader known as the pusher.

My invention has for its object a pusher attachment for manure spreaders which may be automatically drawn out of engagement with the apron at the end of each rearward stroke.

My invention has for its further object means on the pusher for cleaning the track over which the pusher travels and any obstructions which may have collected thereon.

Other objects and advantages will be hereinafter set forth and pointed out in the specification and claim.

In describing the invention in detail the reference had to the accompanying drawings, forming a part of this specification, in which,

Figure 1 is a perspective view partly broken away, of a pusher. Fig. 2 is a vertical sectional view through the pusher and the body of a wagon. Fig. 3 is a detail sectional view taken on the line 2—2 of Fig. 1, showing the means for securing the track to the side boards.

In the drawings, 1 represents one of the side boards of a manure spreader, to which are secured the tracks 2 by means of the rivets 3 passing through the side boards 1, and the side flange 3^a of the track 2. Rigidly secured to each of the side boards 1 near the rear end thereof are the upwardly extending stops 4, for a purpose which will be hereinafter described. Beneath the tracks 2 is positioned the usual or any preferred form of an apron 5.

The pusher consists of a plurality of boards 6 secured together at their outer ends by the upwardly extending portion 7 of the base 8. The uppermost of said boards being inclined rearwardly at an angle to prevent scattering of the manure thrown from the cylinder during operation. Extending

forwardly and at right angles to the upwardly extending portion 7 is the base 8, which is adapted to slide upon the track 2. The base 8 at its outer extremity is curved upwardly as at 9^a, while the upper end of the upwardly extending portion 7 is rounded and bent outwardly from the upper corners of the rearwardly inclined top board 6 to form the trip arm 9. Riveted or otherwise secured between the bars 7 and 8 are the braces 10.

The lowermost of the boards 6 is provided with a downwardly extending portion 11, having a tapering lower edge adapted to extend below the track 2 to be gripped between the slats of the apron 5, to move the pusher rearwardly with the apron. To the rear side of the bottom board near either end thereof are secured the sweeper bars 12 having the outwardly bent portion 13 adapted to engage the track 2 at an oblique angle to sweep therefrom any obstructions which might, if allowed to remain on the track cause the pusher to be raised from the track and thereby disengage the extension 11 from the apron 5.

It will be noted that as the pusher reaches the limit of its rearward movement the trip arm 9 will be engaged by the stop 4, and as the apron 5 continues to move, the pusher will be raised upwardly and tilted against the stop 4 and supported upon the curved end 9^a of the support. The pusher will remain stationary in this position with the extension 11 raised out of engagement with the slats of the apron 5 until it is lifted by hand and placed at the front of the spreader for the removal of a new load.

It will be understood that in such instances where the spreader is not provided with an apron such as described and shown herein, the customary rails 14 may be employed for engaging the portion 11 of the pusher.

It is obvious that changes may be made in the details of construction without departing from the general spirit and scope of my invention.

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

In a manure spreader, in combination, a wagon body having a rearwardly moving apron therein, tracks rigidly secured to the side boards of said body, vertical stop bars secured to the side boards near the rear end

thereof, a pusher board, a forwardly extending base for the latter slidably mounted upon said tracks and having the forward end thereof turned upwardly, a trip arm 5 connected with said pusher board and disposed rearwardly of the latter, and a downward extension carried by said pusher board for engaging between the slats of said apron.

In testimony whereof I have signed my name to this specification in the presence of 10 two subscribing witnesses.

FRITZ A. SCHOETTGER.

Witnesses:

WM. KUNKE,
J. J. POTTS.