

No 862,597.

PATENTED AUG. 6, 1907.

D. K. WILSON.
PUSHER FOR MANURE SPREADERS.

APPLICATION FILED FEB. 28, 1907.

Fig. 1.

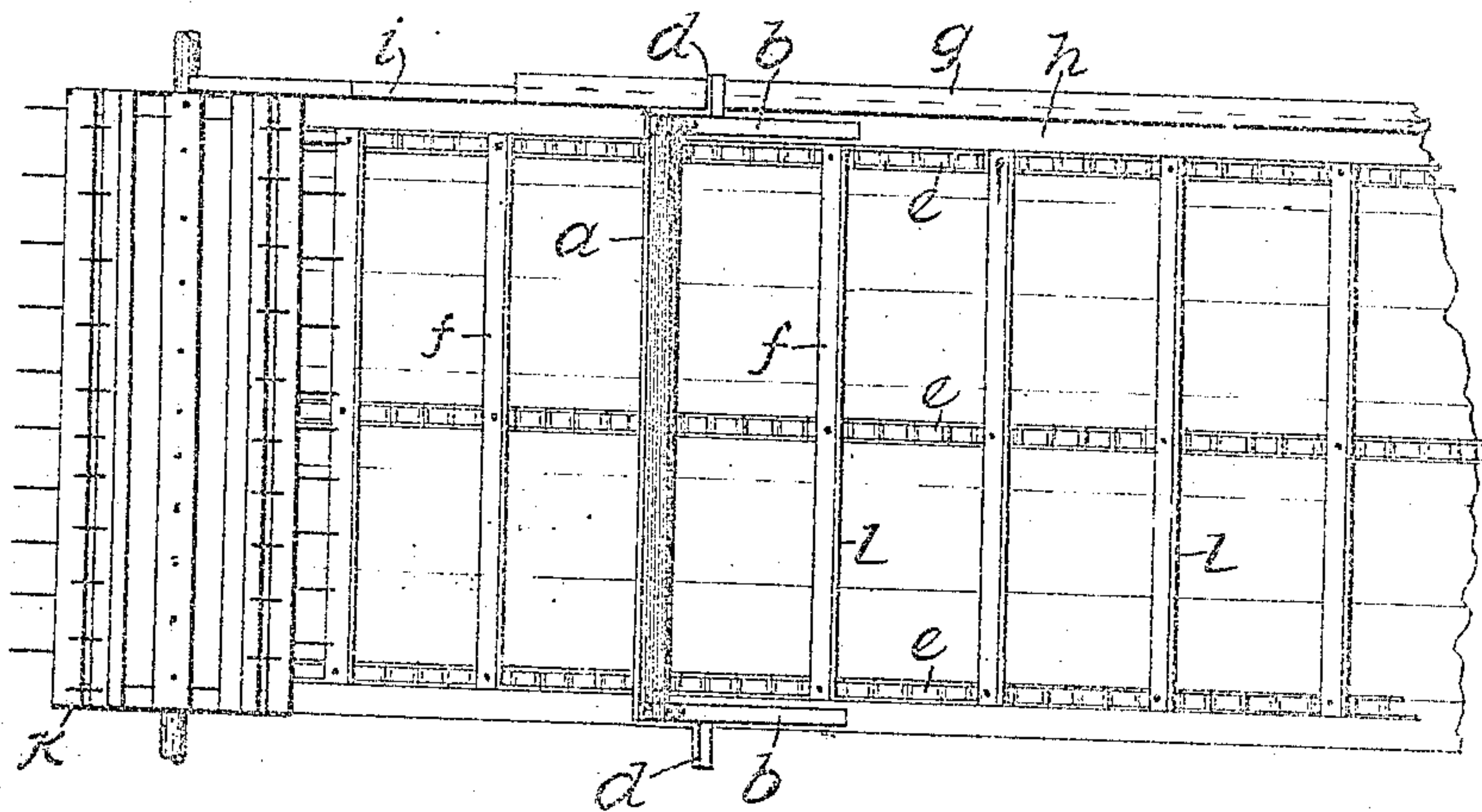


Fig. 2.

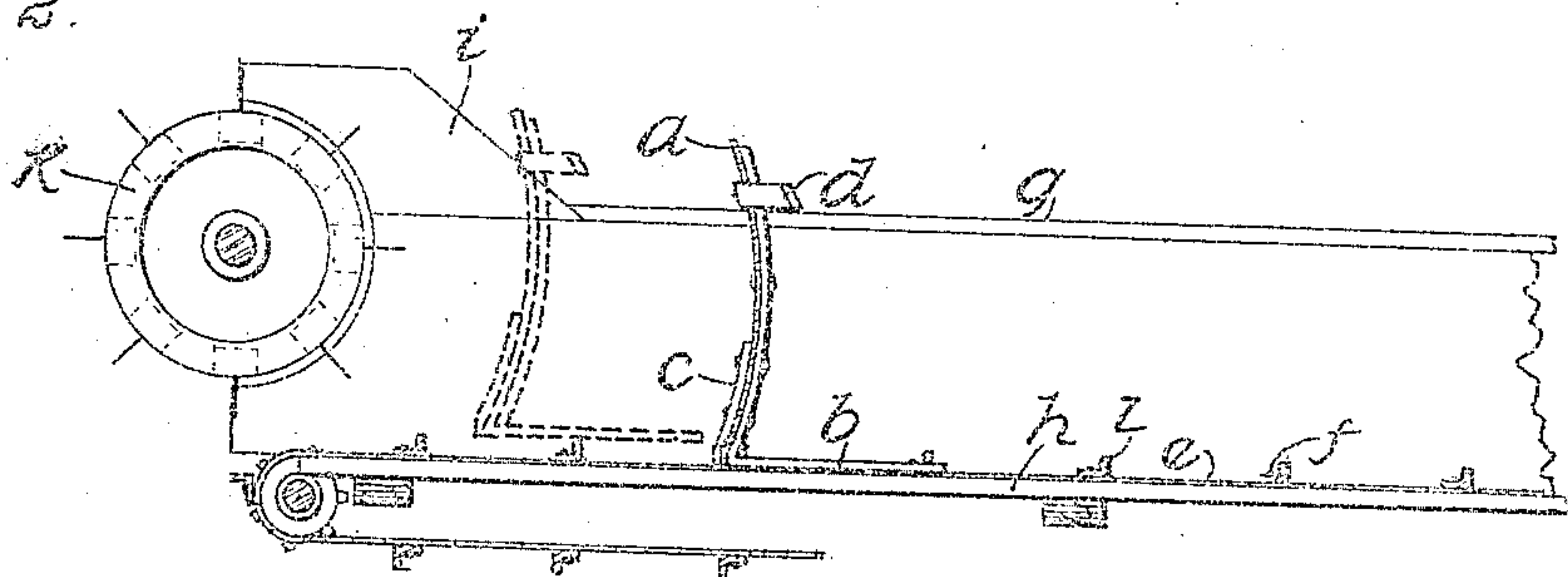
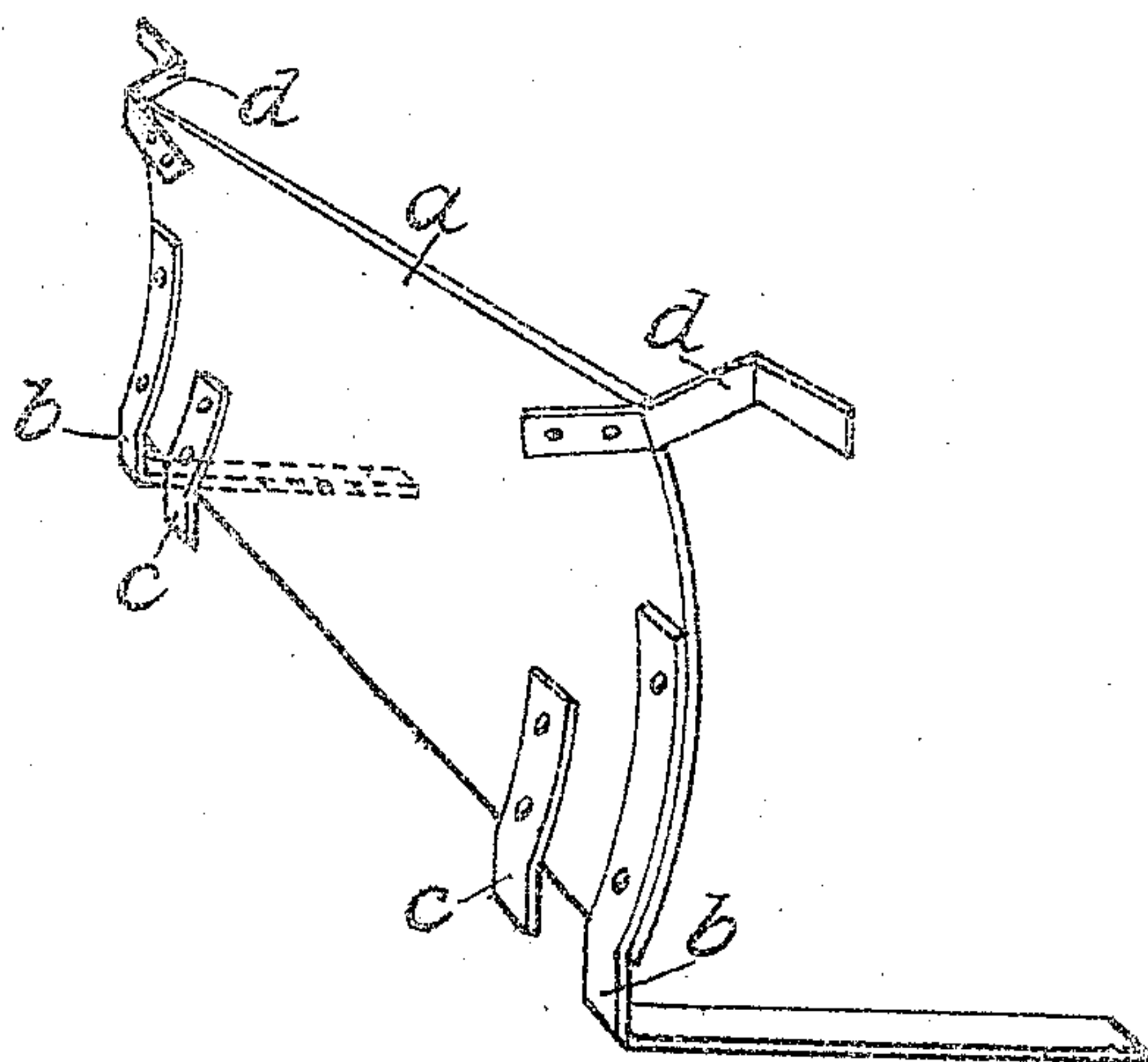


Fig. 3.



WITNESSES:

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PUSHER FOR MANURE-SPREADERS.

No. 862,597.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DALTON K. WILSON, a citizen of the United States of America, and a resident of Gladbrook, Tama county, Iowa, have invented certain new and useful Improvements in Pushers for Manure-Spreaders, of which the following is a specification.

My invention relates to improvements in manure-spreaders, and the object of my improvement is to provide a pusher which will become automatically detached from the apron of the spreader when it has arrived at its rearward limit of movement.

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 plan view of the bed of a manure-spreader with my detachable pusher *in situ*; Fig. 2 is a side elevation of the same, and Fig. 3 is a perspective view of said pusher.

Similar letters refer to similar parts throughout the several views.

My improved detachable pusher is primarily intended for use on manure-spreaders having an endless apron, but if desired it can be used on those machines which possess return aprons.

I have illustrated a portion of the body of a manure spreader, consisting of a bottom *h*, side-boards *g*, beater-drum *k*, and an endless apron consisting of slats *f* having upturned flanges *l* attached to the endless chains *e*.

My improved pusher consists of a curved board *a*, which is supported on angle-irons *b*, the upper members of which are secured to said board at its ends, and whose lower members are horizontal and arranged to act as guides to slide over the upper surface of the bottom *h* outside of said apron. I have attached to the lower edge of said board downwardly projecting bars *c*, which only extend downward sufficiently to engage the rearward surface of one of the slat-flanges *l* when the said pusher has been placed in the position illustrated on said apron. The bracket arms *d* are secured to the two upper corners of the board *a*, and are then bent horizontally forward, and then laterally outward sufficiently to ride upon the upper edges of the side-boards *g*. The ordinary form of supplement-

tary boards *i* are attached to the upper edges of the side-boards *g* at their rear, having sloping forward edges.

When the pusher is placed upon the endless apron, in such a manner that its bars *c* engage the rear surfaces of the flanges *l* on the transverse slats *f*, the rearward movement of the apron will carry said pusher backward horizontally until the bracket arms *d* arrive at the sloping edges of the boards *i*. The further movement of said apron drives the laterally extending portions of said arms *d* up the slope of the forward edges of said boards *i*, causing the bars *c* to lift off from said apron to clear the flanges *l* of the slats *f*. The pusher may then be lifted by hand from the rear part of the wagon-box and returned to the forward portion of the box and then deposited on the apron in a similar manner to be again returned.

This type of detachable pusher may be arranged to deviate slightly in its details of construction in order to conform to the requirements of adjustment to different types of manure-spreaders, without deviating in principle from this invention.

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

1. A device of the character described, consisting of a plate, such plate having lateral projections from its ends adapted to serve as slide-hangers, and projections from its lower edge extending a desired distance downward.

2. A device of the character described, consisting of a plate having lateral projections from its ends adapted to serve as slide-hangers, projections extending a desired distance downward from its lower edge, and guide-projections extending horizontally from its lower edge.

3. A device of the character described, consisting of a plate having engaging means at its lower edge, and provided with guiding means for maintaining it in a vertical position.

4. In a manure spreader, in combination, a wagon-body having a rearwardly movable apron therein, and a detachable pusher-plate provided with means for removably engaging it to said apron.

5. In a manure-spreader, in combination, a wagon-body having a longitudinally movable apron therein, a detachable pusher-plate adapted to engage said apron, and means for detaching said pusher-plate from said apron when the said plate has arrived at its rearward limit of movement.

Signed at Waterloo, Iowa, this 11th day of Feb. 1907.

DALTON K. WILSON.

Witnesses:

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