

UNITED STATES PATENT OFFICE.

OTTO ROSENTHAL, OF GLENBEULAH, WISCONSIN.

MANURE-CARRIER.

No. 911,332.

Specification of Letters Patent.

Patented Feb. 2, 1909.

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To all whom it may concern:

Be it known that I, OTTO ROSENTHAL, a citizen of the United States, residing at Glenbeulah, in the county of Sheboygan and State of Wisconsin, have invented a new and useful Improvement in Manure-Carriers, of which the following is a specification.

This invention relates to manure carriers, especially adapted to conveying the manure from the stalls of a stable to the manure pile, the object being to provide very novel means for shifting the carrier from one track to the other.

Another object of my invention is to provide an automatic trip in connection with the carrier, so that the load will be dumped when it arrives over the manure pile.

Another object of my invention is to provide the carrier with two pairs of supporting wheels so arranged that when two of the wheels are in use, the other will be idle, whereby when shifted to another track the two idle wheels will raise the active wheels out of engagement with the track.

Another object of my invention is to provide very novel means for operating the switch points of the track.

With these objects in view, the invention consists in the novel features of construction, combination and arrangement of parts, hereinafter fully described and pointed out in the claims.

In the drawings forming a part of this specification:—Figure 1 is a diagrammatic view of my improved manure carrier showing it arranged in a barn, the sides of the barn being shown in section. Fig. 2 is a side elevational view of my improved carrier. Fig. 3 is an end view of the same. Fig. 4 is a top plan view of the carrier. Fig. 5 is a detail plan view of the track showing the switch operating means. Fig. 6 is a section taken on line 6—6 of Fig. 1.

Referring to the drawings A indicates a stable, in the isles between the stalls are arranged posts B and C, on which are secured beams D and E carrying brackets D', E', to which are secured tracks F and G which are provided with spring points F', G' at their ends, the point G' being slightly curved as shown. The points are operated by levers H and I carrying links H', I' which are connected to the points, and the levers are provided with hand-levers adapted to engage segmental racks carried by brackets

secured to the sides of the barn, and it will be seen that by operating the levers, the points can be moved back and forth, as will be hereinafter fully described. Secured to one side of the barn and in alinement with the door A', is a cable J which extends out through the door and is supported by posts J' arranged any distance desired from the stable.

My improved carrier consists of a U-shaped frame K provided with bearings K' at its free end, in which are mounted stud-pins L' extending out from the ends of the body L which is substantially semi-circular in cross-section and is formed of metal. The body being held in an upright position by a tripping lever M pivotally mounted between apertured ears M', the lower end fitting in a notched bar secured to the end of the body L, and the upper end being provided with a roller M² and connected to the frame by a spring M³, for normally holding the lower end in the notch of the bar, as will hereinafter be fully described. Extending up from the horizontal portion of the frame are uprights N which are connected together by S-shaped portions, between the loops of which are mounted grooved wheels O, O' P and P', adapted to travel on the cable and track. The track G being higher than the cable J and the point G' having a beveled end and the track F being higher than the track G and the point also beveled, and it will be seen that as the carrier comes along the cable, the idle wheel will strike the beveled portion of the points, and ride up on the same, lifting the active wheels off the cable and throwing the weight onto the track, and it will be seen that the carrier can be shifted from one track to the other in the same manner, so as to allow it to travel up either track as desired. The beveled lug J² is formed on the cable adjacent the post adapted to engage the roller M² and throw the tripping lever out of engagement with the body and the weight of the load of the body will cause it to swing on its pivots so as to dump its load.

From the foregoing description it will be seen that the carrier can be shifted from one track to the other, and that by operating the point, the carrier can be dropped on to the cable.

What I claim:

1. A manure carrier comprising tracks of different heights, a carrier provided with

spaced grooved wheels adapted to travel on said tracks whereby two of the wheels will engage one track and the two idle wheels will engage the other track, and lift the active wheels off the same.

2. A manure carrier comprising tracks arranged in different planes connected together by spring points, a carrier provided with spaced grooved wheels adapted to travel on said tracks whereby when the idle wheels engage the adjacent track, the active wheels will be lifted off the track.

3. In a device of the kind described, the combination of tracks arranged in different planes, of a carrier provided with spaced grooved wheels adapted to travel on said tracks whereby two of the wheels will be

idle so that when they engage the adjacent track which is on a higher plane, the active wheels will be lifted off of said track. 20

4. In a device of the kind described, the combination with tracks arranged in different horizontal planes and provided with spring points, of a carrier provided with spaced grooved wheels mounted on said track, the points of said tracks having beveled ends, whereby when engaged by the idle wheels, the carrier will be lifted, so as to throw the active wheel out of engagement with the track, for the purpose set forth. 25

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Witnesses:

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