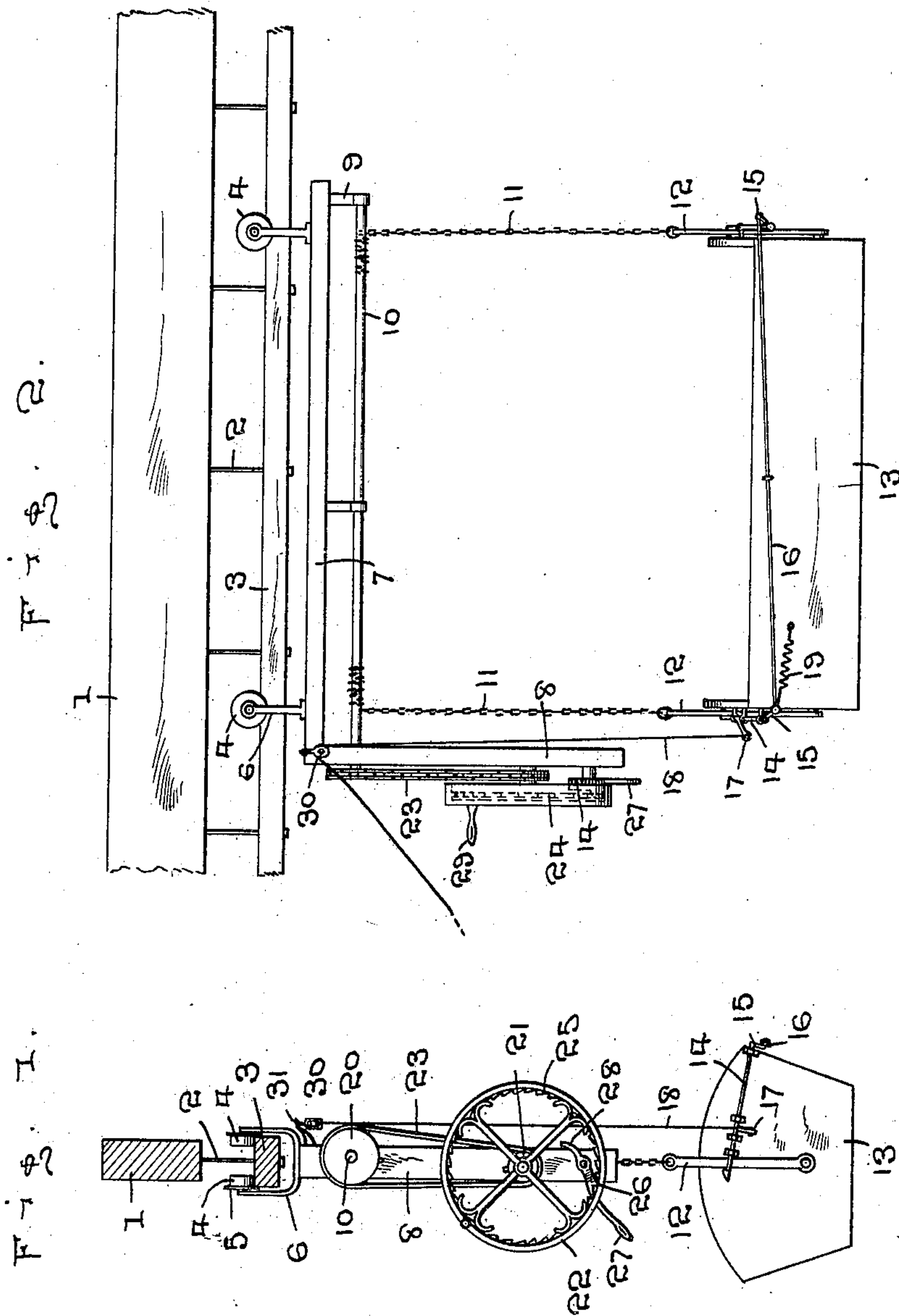


S. JAGGER.  
MANURE CARRIER.  
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982,069.

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WITNESSES:

*Thomas Riley*  
*M. Newcomb*

INVENTOR

*S. Jagger*

BY

*W. J. Fitzgerald & Co*  
Attorneys



# UNITED STATES PATENT OFFICE.

SAUL JAGGER, OF BALEVILLE, NEW JERSEY.

MANURE-CARRIER.

982,069.

Specification of Letters Patent. Patented Jan. 17, 1911.

Application filed June 17, 1910. Serial No. 567,443.

*To all whom it may concern:*

Be it known that I, SAUL JAGGER, a citizen of the United States, residing at Baleville, in the county of Sussex and State of New Jersey, have invented certain new and useful Improvements in Manure-Carriers; 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 new and useful improvements in manure carriers and my object is to provide a device, which may be mounted upon a track way and moved from place to place.

A further object is to provide means for elevating or lowering the body of the carrier.

A further object is to provide a suitable mechanism for controlling the movement of the body of the carrier when descending.

A further object is to pivotally mount the body, whereby it may be rotated or tilted to discharge the contents thereof.

A further object is to provide means for holding said body against rotation when desired, and,

A further object is to provide means for releasing the body when the contents thereof are to be discharged.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawings which are made a part of this application, Figure 1 is an end elevation of the carrier showing the supporting means therefor in section, and, Fig. 2 is a side elevation thereof.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates a supporting beam, depending from which are straps or bolts 2, to the lower ends of which is secured a track 3, which may be constructed in any preferred manner, but preferably of wood. Movably mounted upon the track 3 are wheels 4, one at each edge of the track way, the outer edges of the wheels having flanges 5 to prevent the wheels from casually leaving the track. Supported by the wheels 4 are hangers 6, which hangers are in the shape of a yoke and secured to the horizontal portion of the hangers is a frame 7, said frame being provided at one end with

a depending portion 8. Extending longitudinally of the horizontal portion of the frame 7 and rotatably mounted in arms 9 depending therefrom is a shaft 10, one end of the shaft projecting through the depending portion of the frame. Depending from the shaft 10 and adapted to wind thereon are chains 11, to the lower ends of which are attached bars 12, the lower ends of said bars being in turn attached to the end walls of a receptacle or body 13, the pivotal connection between said bars and the ends of the receptacle being below the axial center of the receptacle, whereby the receptacle will readily rotate to discharge the contents thereof. The receptacle 13 is held in fixed relation with the bars 12 while said receptacle is being filled or being moved upon the track way by providing latches 14 at the ends of the receptacle, said latches when turned in one position engaging the bars and holding the receptacle against swinging movement, the outer ends of the latches having cranks 15, which are connected together by means of a rod 16, so that said latches will operate in unison.

The latch at one end of the receptacle is provided with a shank 17, to which is attached a cable 18, said shank being so arranged that when a pull is given the cable, both of the latches will be swung in their bearings and released from the bars at the ends of the receptacle, thus permitting the receptacle to rotate on its bearings and discharge the contents therefrom. As soon as the cable is released, the latches will be returned to position to again engage the bars 12 by means of a spring 19, one end of which is attached to the side wall of the receptacle and the opposite end to a crank of one of the latches.

The shaft 10 is rotated to wind the chains thereon by placing a sprocket 20 on that end of the shaft projecting through the depending portion of the frame and around said sprocket and a pinion 21 on the hub of a wheel 22 extends a sprocket chain 23, so that when said wheel is rotated, the shaft 10 will be likewise rotated and the chains wound thereon are unwound therefrom.

The object in raising or lowering the receptacle is to position the same at the proper height for filling and transporting the same and in order to hold the receptacle in its elevated position, the wheel 22 is provided



with a band 24, on the inner surface of which are placed teeth 25, with which engages a tooth 26 of a lever 27, said lever being pivoted to the depending portion 8 of the frame.

The tooth 26 is positioned at one side of the pivotal point of the lever, while that portion of the lever at the opposite side of the pivotal point terminates in a shoe 28, which is adapted to engage the smooth portion of the inner face of the band to serve as a brake when the receptacle is being lowered and it will be readily seen that when the shoe is in engagement with the band, the tooth 26 will be moved out of the path of the teeth on the band.

Power is applied to the wheel 22 in any preferred manner, but preferably by providing the same with a handle 29 and in view of the diameter of the wheel, power may be readily applied thereto through the medium of said handle.

The cable 18 is preferably extended upwardly from the shank 17 and disposed over a sheave 30 attached to a bracket 31 adjacent the upper end of the depending portion of the frame and by providing the cable of sufficient length, the latches may be released to discharge the contents of the receptacle at a distance from the receptacle.

This device is primarily employed for removing manure from a building and depositing the same at a distance therefrom and it will be readily seen that by slightly inclining the track way and its supporting beam, the carrier will move by gravity to any distance from the building.

It will further be seen that by providing a cable of proper length, said cable may be used for returning the carrier to the place where it is to be filled after the contents of the receptacle has been discharged and it will likewise be seen that when a pull is directed on the cable to return the carrier to the building, the receptacle will be swung upwardly and the latches again engaged with the bars.

It will further be seen that when the receptacle is to be filled, it can be readily lowered to a point adjacent the ground or floor and when filled, the receptacle can be elevated to the proper height and the carrier

then moved out of the building to be emptied.

What I claim is:—

1. In a carrier of the class described, the combination with a frame movably mounted on tracks, a shaft rotatably mounted on said frame, and means to manually rotate said shaft; of a receptacle, bars at the ends of said receptacle, connecting means between said bars and shaft, means to retain said receptacle in upright position, and a cable cooperating with said latter means and extending over a sheave carried by said frame, whereby when said cable is given a pull, said receptacle will be rotated on its bearings.

2. In a carrier of the class described, the combination with a frame, supporting means therefor, a shaft mounted on said frame and means to rotate said shaft; of a receptacle, bars pivotally mounted on the ends of said receptacle, connecting means between said bars and said shaft, latches carried by said receptacle adapted to engage said bars and retain said receptacle in upright position, and a cable cooperating with said latches, whereby when the same is given a pull, the latches will be released from effective position and the receptacle rotated on its bearings.

3. In a device of the character described, the combination with a frame, supporting means therefor, a shaft rotatably mounted on said frame and a receptacle adapted to be raised and lowered with the rotation of said shaft; of means to rotate said shaft comprising a sprocket at one end of said shaft, a wheel and pinion carried by said frame, a chain cooperating with said pinion and sprocket, means to rotate said wheel, means to prevent the rotation of said wheel and the corresponding descent of the receptacle, and additional means to control the rotation of said wheel in the lowering of said receptacle.

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

SAUL JAGGER.

Witnesses:

ANDREW E. SNOVER,  
N. J. JONES.