

C. UHLICH.
 APPARATUS ON VEHICLES FOR COLLECTING HORSE DUNG.
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1,059,506.

Patented Apr. 22, 1913.

Fig. 1.

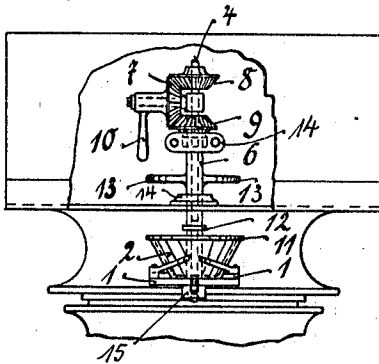


Fig. 2.

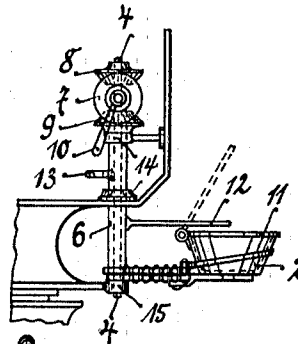


Fig. 3.

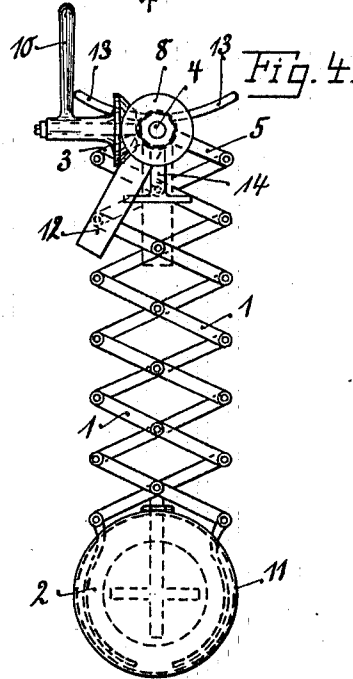
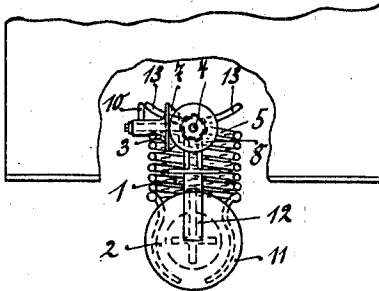
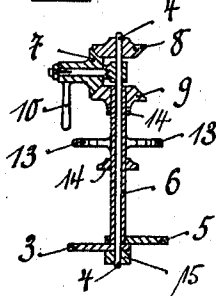


Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

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APPARATUS ON VEHICLES FOR COLLECTING HORSE-DUNG.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CLEMENS UHLICH, a subject of the German Emperor, and resident of Chemnitz, Germany, have invented certain new and useful Improvements in Apparatus on Vehicles for Collecting Horse-Dung, of which the following is a specification.

At present, great value is set upon the quick removal of dirt from streets in order to prevent the transmission of morbid matters therein to men or animals. Hitherto, this could only be effected by sweeping and cleaning devices, which are connected with large expenditure of costs. Especially the horse-dung could not be perfectly removed thereby, but was at least first lying a certain time on the street.

The present invention has for its object to provide an apparatus on vehicles, by which the horse-dung can be collected without falling upon the street and thus soiling the same.

The accompanying drawing shows the improved apparatus.

Figure 1 is a front view, Fig. 2 a side view, and Fig. 3 a plan view of same, as mounted on a vehicle, while Fig. 4 is a plan view of the separated apparatus in its position of use. Fig. 5 is a longitudinal section through the means for operating the apparatus.

A receptacle 2, which serves for the reception of the horse-dung, is removably carried by the front ends of lazy tongs 1, the rearmost fulcrum of which is in connection with two shafts 4 and 6 arranged within each other. The inner shaft 4 reaches down to the lower rear member 3 with which it is firmly connected, while the outer shaft 6 is in rigid connection with the upper rear member 5. Both shafts are mounted in bearings 14, while the inner shaft 4 rests further at its lower end in a support 15. At their upper ends, both shafts carry bevel wheels 8 and 9 respectively, which wheels are in gear with a bevel wheel 7, which can be turned by means of a handle 10. Upon the latter being turned to the right, member 5 is turned

in same direction and member 13 in opposite direction, whereby the lazy tongs are opened (Fig. 4). The driver of the vehicle can thereby, in case of need, advance the receptacle toward the horse for the reception of the dung. To again return the receptacle, the handle must be turned to the left, whereby the lazy tongs are closed.

A spring-pressed, self-opening lid on the receptacle is closed by an abutment 12, fixed on the hollow shaft 6, and kept in this position when the receptacle is drawn back.

In order to operate the lazy tongs in two directions, which is necessary when driving a pair, the hollow shaft 6 is fitted with two outer projecting arms 13. The driver treads, in order to approach the receptacle to the left hand horse, on the right arm 13, so that the whole apparatus is turned to the left, whereupon the lazy tongs are opened by turning the handle 10. To attend to the right hand horse, the operation is effected in the same way by means of the left arm 13.

I claim:

1. Apparatus on vehicles for collecting horse-dung, comprising in combination, lazy tongs, a receptacle for the reception of the horse-dung removably arranged on the front ends of said lazy tongs, two rotary shafts arranged within each other on the vehicle in front of the driver's seat and firmly connected with the rear ends of said lazy tongs, means to rotate said shafts in opposite direction from the driver's seat and thus to open or close said lazy tongs, a spring-pressed self-opening lid on said receptacle, and an abutment to close said lid when the receptacle is not in use, substantially as and for the purpose set forth.

2. Apparatus on vehicles for collecting horse-dung, comprising in combination, lazy tongs, a receptacle for the reception of the horse-dung removably arranged on the front ends of said lazy tongs, two rotary shafts arranged within each other on the vehicle in front of the driver's seat and firmly connected with the rear ends of said lazy tongs, means to rotate said shafts in opposite direction from the driver's seat and

thus to open or close said lazy tongs, a
spring-pressed self-opening lid on said re-
ceptacle, an abutment to close said lid when
the receptacle is not in use, and means to
5 turn said lazy tongs also in lateral direc-
tion, necessary when driving a pair, substan-
tially as and for the purpose set forth.

In testimony whereof I have hereunto set
my hand in the presence of two subscribing
witnesses.

CLEMENS UHLICH. [L. S.]

Witnesses:

SIDNEY RICH,

NAN KOHL.

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