W. C. PASCOE.

STREET SWEEPING AND LOADING DEVICE.

APPLICATION FILED APR. 11, 1911.

**1,054,603.**

Patented Feb. 25, 1913.

2 SHEETS—SHEET 1.

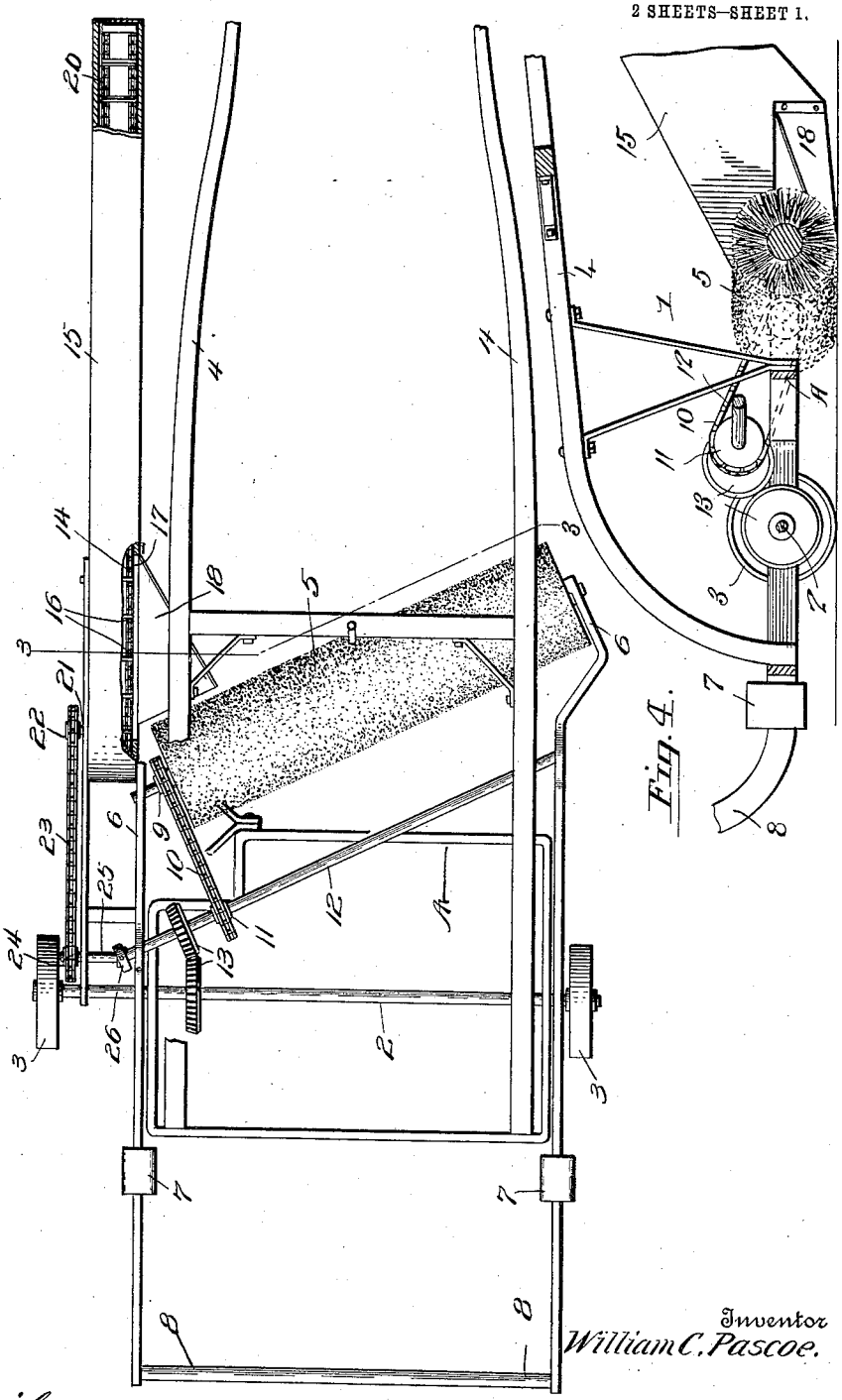


Fig. 1.



Fig. 4.

Witnesses

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2 SHEETS—SHEET 2.

Fig. 2.

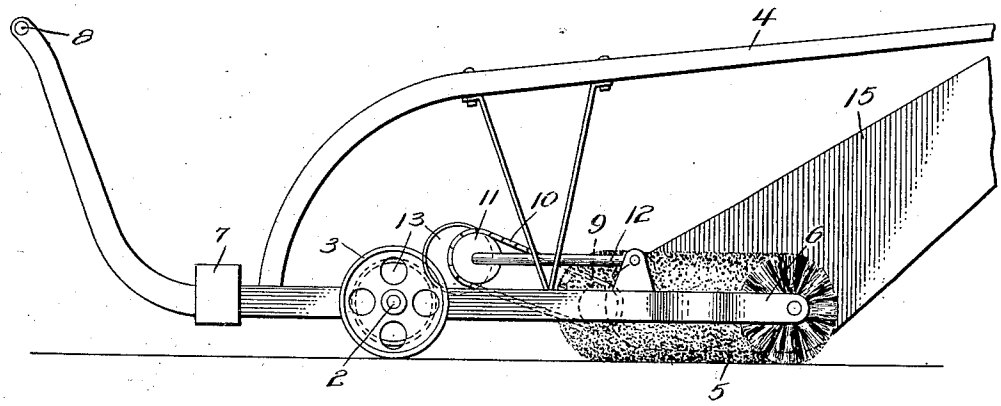
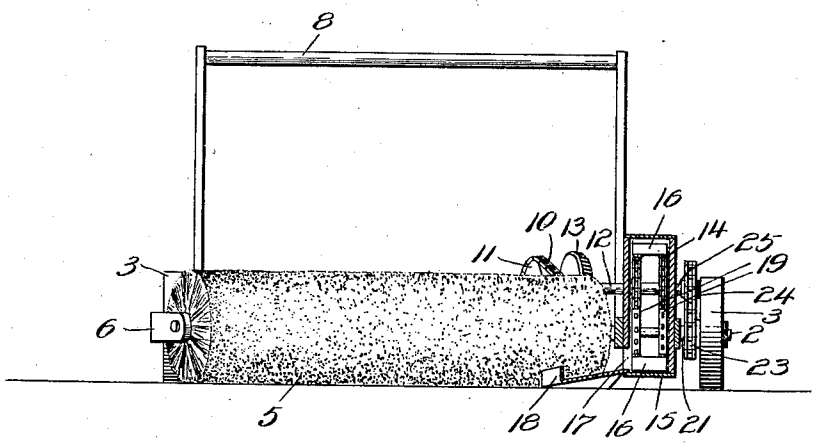



Fig. 3.




Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM C. PASCOE, OF ABERDEEN, WASHINGTON.

## STREET-SWEEPING AND LOADING DEVICE.

1,054,603. Specification of Letters Patent. Patented Feb. 25, 1913.

Application filed April 11, 1911. Serial No. 620,367.

*To all whom it may concern:*

Be it known that I, WILLIAM C. PASCOE, a citizen of the United States, residing at Aberdeen, in the county of Chehalis and State of Washington, have invented new and useful Improvements in Street-Sweeping and Loading Devices, of which the following is a specification.

This invention relates to a machine which is used to take up from along the curb of the street the dirt that has been swept to the curb by the usual revolving horse brushes.

The invention has for one of its objects to provide a machine for effectively performing work of this character so as to dispense with the usual unsanitary method of manually sweeping the dirt into piles and shoveling the latter into wagons, as the present machine can be driven along the curb to gather up the dirt and discharge it into a wagon traveling along with the machine.

With such an object in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawings, which illustrate one embodiment of the invention, Figure 1 is a plan view of the machine with portions broken away. Fig. 2 is a side view thereof. Fig. 3 is a section taken transversely of the machine, the draft device being omitted, Fig. 4 is a vertical longitudinal sectional view of the machine, upon a reduced scale.

Similar reference characters are employed to designate corresponding parts throughout the views.

Referring to the drawings, A designates the frame of the machine, which is supported on an axle 2 that is provided with wheels 3, said wheels being keyed to the axle so that the latter will rotate. The frame is provided with a suitable draft device 4 so that the machine can be drawn by a horse. Disposed in front of the frame is a rotary brush 5 that is inclined rearwardly from a line transverse to the direction of travel. This brush is supported in any suitable manner so that it can be raised and lowered. In the present instance, the brush is journaled in side bars 6 fulcrumed on the axle 2 and on the portions of the side bars behind the axle are counterbalance weights 7. The rear extremities of the side bars are curved upward and provided with a handle bar 8 whereby the attendant can tilt the brush-carrying frame whenever required, as in going over street crossings or in making turns. This brush has a sprocket wheel 9 at one end that meshes with a sprocket chain 10, the said chain being driven by a sprocket wheel 11 fixed on the rotary shaft 12 extending obliquely across the frame A. The shaft 12 is rotated from the axle by intermeshing gearing 13. The forward end of the brush projects beyond the adjacent side of the frame 1 so that the brush will run as close as possible to the curb. At the rear end of the brush is arranged an endless belt or elevator 14 that runs in a chute or duct 15 up which the sweepings are conducted and discharged into a wagon that runs along with the machine. This elevator 14 consists of endless chains having buckets or vanes 16 which carry the sweepings along the bottom of the duct. At the lower end of the duct is a side opening 17 into which the sweepings are discharged by the brush 5, the bottom of the duct being formed of a flat plate 18 that is provided at the bottom of the opening 17 with a lateral extension forming a receiving apron. The sprocket chains of the conveyer pass around sprocket wheels 19 and 20 at the ends of the elevator, the said sprocket wheels 19 being fixed on a shaft 21 that has one end projecting out of the elevator and provided with a sprocket wheel 22. A sprocket chain 23 passes around the sprocket wheel 22 and also around the sprocket wheel 24 which is secured to an extension 25 of the shaft 12. This extension is connected with the shaft 12 by a universal joint 26 so that the extension will be parallel with the axis around which the lower end of the elevator passes. The duct of the elevator is braced from and supported by the movable frame on which the brush is mounted so that when the handle bar 8 is depressed, the lower end of the duct will be raised above the surface of the street as in passing crossings or in moving the machine from place to place.

Having thus described the invention, what I claim as new, is:—

1. A machine of the class described comprising a frame, a draft device connected to said frame, tilting side bars arranged

longitudinally of said draft device, a wheel carrying axle mounted in said frame and side bars, a brush obliquely journaled in the forward ends of said side bars, a shaft journaled in said side bars rearwardly of said brush and in parallel relation thereto, connections between said brush, shaft, and axle for rotating said brush, a conveyer arranged longitudinally of the line of travel of said machine, and connections between said shaft and said conveyer for driving the latter.

2. A machine of the class described comprising a frame, a draft device connected thereto, side bars arranged longitudinally of said draft device, a wheel carrying axle mounted in said frame and side bars, a brush obliquely journaled in the forward ends of side bars rearwardly of said brush and in parallel relation thereto, connections between said brush, shaft, and axle for rotating said brush, a chute arranged longitudinally of the line of travel of said machine and having an opening therein, a receiving apron extending laterally from said opening adjacent said brush, a conveyer arranged in said chute, and a connection between said shaft and said conveyer for driving the latter.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM C. PASCOE.

Witnesses:
R. H. KEAGY,
G. S. ELDER.

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