

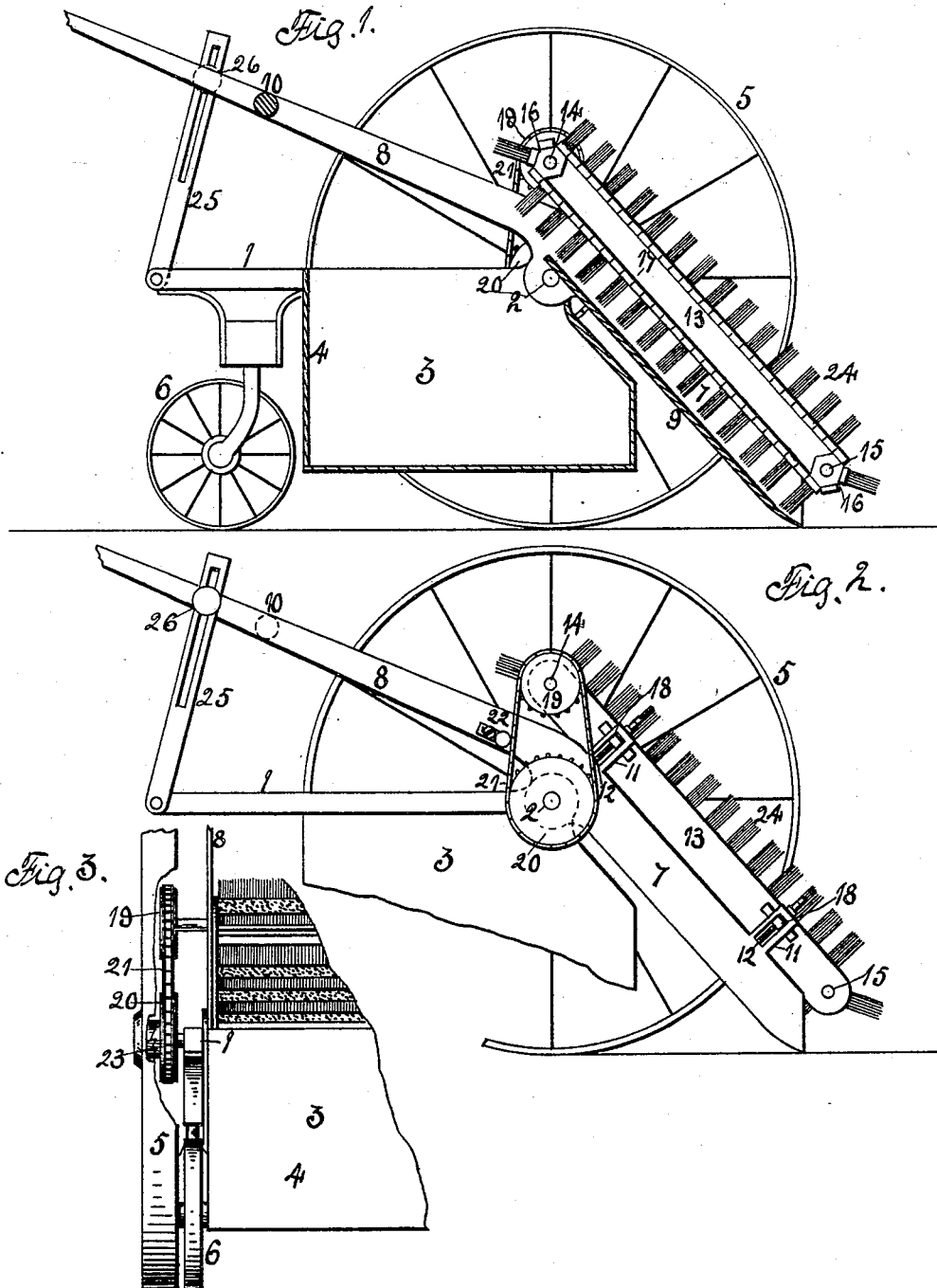
No. 649,114.

Patented May 8, 1900.

E. C. SPALDING & C. H. GODFREY.
STREET SWEEPER.

(Application filed Apr. 7, 1899.)

(No Model.)



Witnesses:
Lee Stewart
E. Behel.

Inventors:
Eugene C. Spalding
Charles H. Godfrey.
By A. O. Behel
Atty.

UNITED STATES PATENT OFFICE.

EUGENE C. SPALDING AND CHARLES H. GODFREY, OF ROCKFORD, ILLINOIS.

STREET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 649,114, dated May 8, 1900.

Application filed April 7, 1899, Serial No. 712,171. (No model.)

To all whom it may concern:

Be it known that we, EUGENE C. SPALDING and CHARLES H. GODFREY, citizens of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Street-Sweepers, of which the following is a specification.

The object of this invention is to construct a street-sweeper in which a receptacle is provided for the dirt and in which an endless moving brush carries the dirt up an incline and discharges it into the receptacle.

In the accompanying drawings, Figure 1 is a vertical lengthwise central section. Fig. 2 is an end elevation with one of the carrying-wheels removed. Fig. 3 is a rear elevation and a portion of one of the carrying-wheels broken away.

The main frame consists of the horizontal bars 1, pivoted upon an axle 2 and supporting a dirt-receptacle 3, having an end 4. The forward portion of the main frame is supported on carrying-wheels 5 and the rear portion by caster-wheels 6. Upon the axle and within the space of the dirt-receptacle is supported a tilting frame composed of the side bars 7, handle portions 8, and inclined portion 9. The handle portions are joined by a cross-bar 10. From each of the side bars 7 project the slotted guideways 11 and a screw 12.

A frame, composed of the side bars 13, and transverse shafts 14 and 15, supporting rollers 16, over which passes an endless carrier 17, is located between the side bars of the tilting frame and connected therewith by a head 18, secured to the side bars of the brush-frame and located in the slotted guideways 11, and engaging the screws 12.

To the projecting ends of the shaft 14 are secured sprocket-toothed wheels 19, and upon the shaft 2 outside of the main frame are located sprocket-toothed wheels 20, having a connection with the sprocket-toothed wheels 19 by the linked chain belts 21, and a chain-tightener 22 has a connection with the handle portion of the tilting frame and engages the linked chain belts.

A ratchet 23 forms a connection between the sprocket-wheels and main carrying-wheels, so that as the machine is moved for-

ward the sprocket-wheels will be revolved and when moved backward the wheels will not revolve.

The endless carrier supports brushes 24. In this instance they are arranged with a space between the brushes. The handle portion of the tilting frame has an adjustable connection with the main frame through the links 25, pivoted to the ends of the main frame, and turn-buttons 26 clamp the links to the handle portions and by means of which the tilting frame can be raised and lowered and held when adjusted.

In use the tilting frame is lowered until the lower end of the incline reaches the pavement, and the brushes are adjusted in connection with the tilting frame, so that they sweep the pavement. The sweeper is then moved forward, which will cause the brush to revolve and carry the dirt gathered by the incline up the incline and discharge it into the receptacle, which when filled can be emptied.

As the brush wears the frame supporting it can be adjusted toward the incline, so as to properly elevate the dirt.

We claim as our invention—

1. In a street-sweeper, the combination with a supporting-frame, of an axle, wheels mounted upon said axle, a dirt-receptacle supported by the main frame, a tilting frame pivoted directly to the axle, an inclined scoop carried by the tilting frame, one end of said scoop being adapted to make contact with the pavement and the other end terminating at a point over the dirt-receptacle, a brush-frame mounted upon the tilting frame and adjustable to and from the latter, shafts journaled in the opposite ends of said brush-frame, rollers mounted upon said shafts, an endless brush supported by said rollers and mounted to travel over the scoop, a sprocket-wheel fixed to one of said shafts, a sprocket-wheel on the axle, and a sprocket-chain passed over the said sprocket-wheels and operating to cause a movement of the brush over the scoop, substantially as described.

2. In a street-sweeper, the combination with a supporting-frame, of an axle, wheels mounted upon said axle, a dirt-receptacle supported by the main frame, a tilting frame pivoted directly to the axle, an inclined scoop carried by the tilting frame, one end of said scoop be-

ing adapted to make contact with the pavement and the other end terminating at a point over the dirt-receptacle, a brush-frame adjustably mounted in slotted brackets on the
5 tilting frame and movable to and from the latter, shafts journaled in the opposite ends of said brush-frame, rollers mounted upon said shafts, an endless brush supported by said rollers and mounted to travel over the scoop,
10 a sprocket-wheel fixed to one of said shafts, a sprocket-wheel on the axle, a sprocket-chain passed over the said sprocket-wheels

and operating to cause a rotation of the brush over the scoop, handles extending rearward from the tilting frame and serving to adjust 15 the position of the latter, slotted links pivoted to the main frame, and means for locking the said handles, to the slotted links, substantially as described.

EUGENE C. SPALDING.
CHARLES H. GODFREY.

Witnesses:

A. O. BEHEL,
E. BEHEL.