No. 817,662. PATENTED APR. 10, 1906.

E. S. PEARSON.

STREET CLEANING MACHINE.

APPLICATION FILED JAN. 3, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

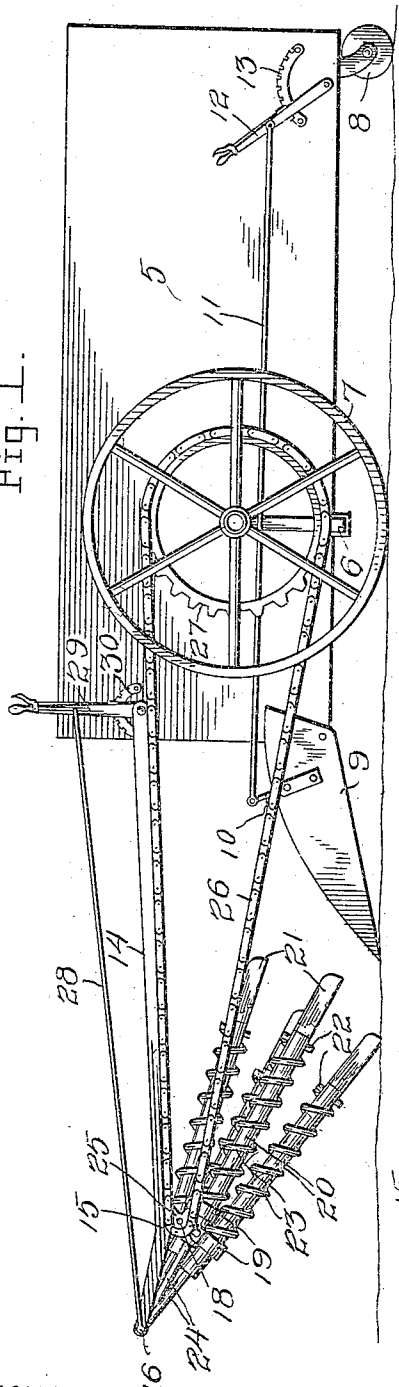
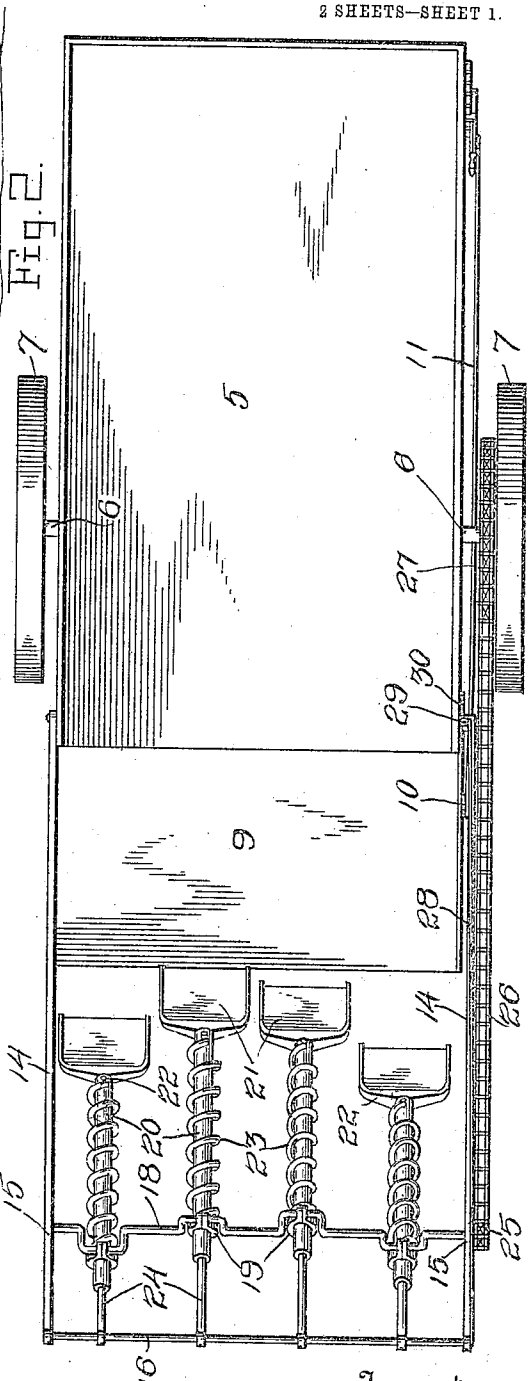



Fig. 2.




Witnesses
C. K. Reichenbach.
J. C. Jones

Inventor
E. S. Pearson.
By Brandenburg & Brandenburg
Attorneys

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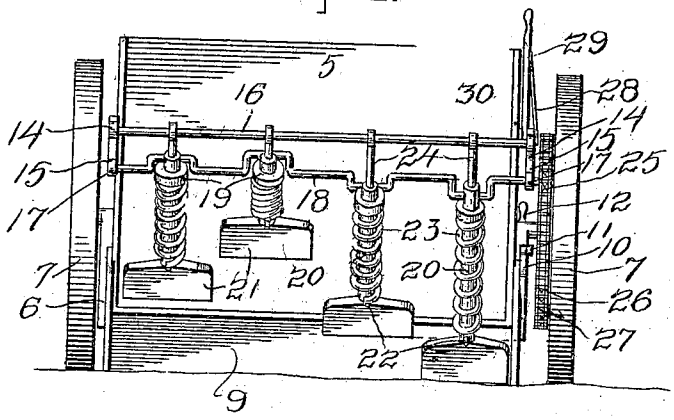
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2 SHEETS—SHEET 2.

Fig. 3.



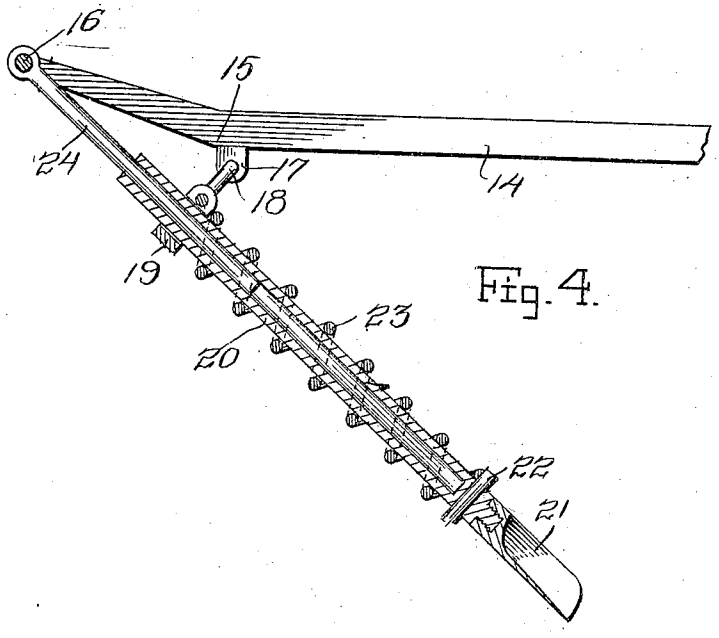




Fig. 4.

Witnesses
A. K. Reichenbach
F. C. Jones

Inventor
E. S. Pearson.
by Crandall & Crandall.
Attorneys.

# UNITED STATES PATENT OFFICE.

ELLIS S. PEARSON, OF BRADFORD, OHIO.

## STREET-CLEANING MACHINE.

No. 817,662. Specification of Letters Patent. Patented April 10, 1906.

Application filed January 3, 1906. Serial No. 294,395.

*To all whom it may concern:*

Be it known that I, ELLIS S. PEARSON, a citizen of the United States, residing at Bradford, in the county of Miami, State of Ohio, have invented certain new and useful Improvements in Street-Cleaning Machines; 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.

This invention relates to street-cleaning machines, and has for its object to provide a machine of this character which may be moved over a street or pavement and which will include a series of shovels which operate to throw the dirt from the street or pavement upon a pan to be afterward deposited in a suitable receptacle.

A further object of the invention is to provide means whereby the shovels will not be injured by contact with stones or the like.

With the above and other objects in view the present invention consists in the construction and arrangement of parts shown in the accompanying drawings, in which—

Figure 1 is a side elevation of the machine. Fig. 2 is a top plan view thereof. Fig. 3 is a front elevation, and Fig. 4 is a detail longitudinal sectional view through one of the shovels of the machine.

Referring to the drawings, the numeral 5 denotes a receptacle of any desired construction, which is mounted upon a U-shaped axle 6, which in turn is supported by means of ground-wheels 7. The rear end of the receptacle 5 is supported by means of a caster-wheel 8, and to the front of the receptacle 5 is hinged a pan 9. The pan 9 is provided at one of its sides with an arm 10, which is connected at one end of a rod 11, the other end of said rod being connected to a lever 12, which is held at various points of its movement by means of a segmental rack 13, the said lever being designed to raise and lower the pan 9 to throw any dirt collected therein into the receptacle 5.

Secured pivotally to the sides of the receptacle 5 and extending forwardly of the machine are arms 14, which are bent intermediate their ends, as at 15, and which are connected at their outer ends by means of a rod 16. At the bent portion 15 of each of the arms 14 is an apertured ear 17, in which are journaled the ends of a crank-shaft 18. Pivoted to the crank portions of the crank-shaft 18 is a collar 19, through which is engaged a sleeve 20, which carries at its rear end a shovel 21. The sleeve 20 is provided adjacent its connection with a shovel 21 with a pin 22, between which and the collar 19 is disposed a spring 23. Pivotally connected to the rod 16 are rods 24, which have their free ends slidably engaged in the respective sleeves 20.

Secured to one end of the crank-shaft 18 is a sprocket-gear 25, which is connected by means of a sprocket-chain with a second sprocket-gear 27, which is secured in any suitable manner to one of the wheels 7 of the machine. Connected at one of its ends to one of the arms 14 is a rod 28, which is connected at its other end to a lever 29, which is pivoted to the receptacle 5 and which is held in its adjusted positions by means of a segmental rack 30. It will be seen that movement of the lever 29 will cause the arms 14 to swing vertically, thereby raising and lowering the crank-shaft 18 and its related parts with respect to the ground.

From the foregoing it will be seen that as the crank-shaft 18 is revolved the shovels will be successively oscillated to scoop up dirt from the ground and throw the same upon the pan 9, after which they will move upwardly and rearwardly in position to repeat this operation. The springs 23 upon the sleeves 20 will be compressed should the shovel-blades strike a stone or other obstacle, thereby cushioning the impact and preventing injury to the said blade.

What is claimed is—

1. A device of the class described comprising a receptacle arranged for travel, a pan carried by said receptacle, and a series of shovels arranged to discharge into said pan.

2. A device of the class described comprising a receptacle arranged for travel, a pan carried by said receptacle, and a series of yieldably-mounted shovels arranged to discharge into said pan.

3. A device of the class described comprising a receptacle, a pan carried by said receptacle, a series of shovels arranged to discharge into said pan, and means for raising and lowering said shovels.

4. A device of the class described comprising a receptacle arranged for travel, a pan carried by said receptacle, a crank-shaft mounted forwardly of said receptacle and pan, and a series of shovels mounted upon said crank-shaft and arranged to discharge into said pan.

5. A device of the class described comprising a receptacle arranged for travel, a pan carried by said receptacle, a series of shovels arranged to successively collect dirt or the like and to discharge into said pan, and means for tilting said pan to discharge into said receptacle.

6. A device of the class described comprising a receptacle arranged for travel, a pan hinged to the forward end of said receptacle, a series of shovels arranged to discharge into said pan, and means for raising and lowering said shovel series and said pan.

7. A device of the class described comprising a receptacle arranged for travel, a crank-shaft mounted in advance of said receptacle, a rod mounted in advance of said crank-shaft, shovels including tubular shanks mounted upon said crank-shaft, rods pivoted to said first-named rod and engaged in said tubular shanks, and springs disposed upon said shanks intermediate said shovels and said crank-shaft.

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

ELLIS S. PEARSON.

Witnesses:
JOHN H. KNIESLY,
P. B. MILLER.