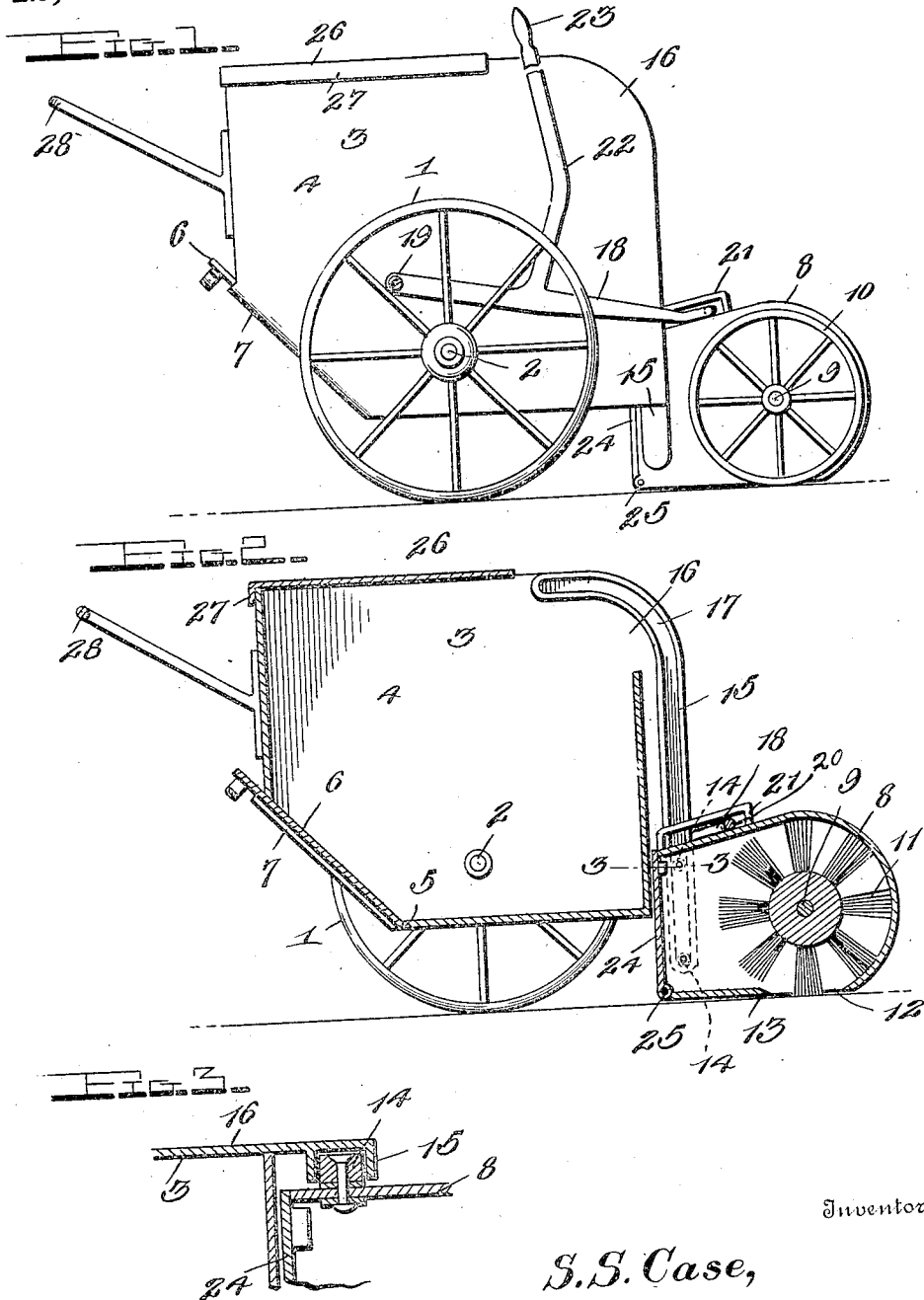


S. S. CASE.
STREET SWEEPER.
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Patented Oct. 29, 1912.

1,042,532.



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SYDNEY S. CASE, OF MOUNT PLEASANT, IOWA.

STREET-SWEEPER.

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To all whom it may concern:

Be it known that I, SYDNEY S. CASE, a citizen of the United States, residing at Mount Pleasant, in the county of Henry and State of Iowa, have invented certain new and useful Improvements in Street-Sweepers, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in sweepers designed for street use and to be propelled by hand in which I employ a wheeled vehicle, and has for its object to produce a comparatively light but durable and serviceable street sweeper which can be readily pushed about by the person using the same to remove the dust and dirt in its path in a thorough manner and without filling the air with a cloud of foreign matter.

Another object of the invention is to provide a device of this character which will possess advantages in points of efficiency and durability, is inexpensive of manufacture and at the same time is simple in construction and operation.

With the above and other objects in view the invention consists in the novel features of construction, combination and arrangement of parts hereinafter more fully described, pointed out in the claims and shown in the accompanying drawings, in which—

Figure 1 is a side elevation of my improved street sweeper; Fig. 2 is a longitudinal sectional view, and Fig. 3 is a sectional view on the line 3—3 of Fig. 2.

Referring more particularly to the drawings 1 indicates two large wheels mounted on the axle 2. A body or receptacle 3 is securely mounted on the axle, having the axle passing through the same near the bottom. The body or receptacle 3 is made of galvanized iron or any other suitable material desired and is preferably made in rectangular shape, having its lower rear corner cut away to form an opening 5 through which the contents of the receptacle are emptied, said opening being kept normally closed by the door 6 which is slidably mounted in the grooves 7 formed at the sides of the opening.

A housing 8 is disposed at the front end of the body 1 having an axle 9 passing through said housing and two small wheels 10 mounted on each end of said axle, said

wheels being of such diameter as to space the housing a required distance from the ground. A brush 11 is mounted on the axle and disposed within the housing to sweep the dust and dirt into the housing through the longitudinal opening 12, the edge at the lower side of the opening is sharpened as shown at 13 so as to bring this edge as close to the surface of the ground as possible to collect the smaller particles of dirt.

A pair of rollers 14 are secured to the rear of each side of the housing 8 and adapted to operate in the guides 15, formed on the forwardly extending edges 16 of the body, the upper ends of said guides being curved over the upper corners of the body as shown at 17 so that the extreme ends are disposed in a substantially horizontal plane. A U-shaped bar 18 is provided having its ends pivotally secured to the sides of the receptacle by means of the small bolts 19 and the intermediate portion 20 of the bar is disposed through the loops 21 on the top of the housing 8 at the rear side thereof. A hand lever 22 is formed integral with one side of the bar 18 and extends above the top of the receptacle 2 and is provided on its upper end with a handle 23 to permit easy manipulation of the same.

The housing 8 is provided on its rear end with a door 24 hinged to the lower side of the housing as shown at 25 so that when the housing is raised the door will open and dump the contents of the housing into the receptacle. A cover 26 is provided for the open top of the receptacle, having the resilient flanges 27 formed thereon and bent inwardly to engage the edges of the body and hold the top in place. A suitable handle 28 is secured to the rear of the receptacle with which to propel the sweeper.

The advantage, use and operation of my device will be readily understood from the above taken in connection with the drawing.

The device as shown by the full lines in Fig. 1 is ready for use and is pushed along the street with the lower sharpened edge 13 of the opening 12 scraping up the dust and dirt from the street and as the brush 11 rotates it sweeps the dirt from the edge back into the housing. When the housing is full the lever 22 is pulled rearwardly and downwardly raising the housing, the door 24 will swing open and dump the contents of the housing into the receptacle. When

the receptacle is full the door 6 at the rear of the receptacle is pulled up allowing the contents to be emptied therefrom.

From the above it will be seen that I have constructed a simple, novel and practical device which is simple in construction and operation and inexpensive of manufacture.

While I have shown and described the preferred form of my device it will be obvious that various changes in the details of construction and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope thereof.

Having thus described the invention, I claim:

1. In a device of the character described, the combination of a wheeled receptacle, a wheel supported housing movable with respect to the receptacle, a rotary brush within said housing, rollers secured to the rear of said housing and arranged on each side thereof, guides formed on the forward end of said receptacle in which said rollers are adapted to operate and means for raising said housing and dumping the contents thereof into the receptacle.

2. In a device of the character described, the combination with a wheeled receptacle, of a wheeled supported housing movable in a vertical plane with respect to the receptacle, having a longitudinal opening formed on the lower side thereof, a rotary brush within said housing to sweep the dust and

dirt into said housing through said opening, means for raising the housing and dumping the contents into the receptacle, and a door hinged to the rear of said housing for swinging movement and adapted to open when the housing is raised to dump the contents.

3. In a device of the character described, the combination of a wheeled receptacle, a wheel supported housing movable with respect to the receptacle, a rotary brush within said housing, substantially horizontally arranged loops secured to the top of said housing, a U-shaped bar having its intermediate portion disposed within said loops and its ends pivotally secured to the sides of the receptacle and a lever formed on one side of said bar to raise the housing and dump the contents into the receptacle.

4. In a device of the character described, the combination of a wheeled receptacle, a wheel supported housing movable with respect to the receptacle, a rotary brush within said housing, loops secured to the top of said housing, a bar pivotally secured to the receptacle and movably engaging with the loops, a handle lever carried by the bar whereby the housing may be raised to dump the contents thereof into the receptacle.

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

SYDNEY S. CASE.

Witnesses:

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