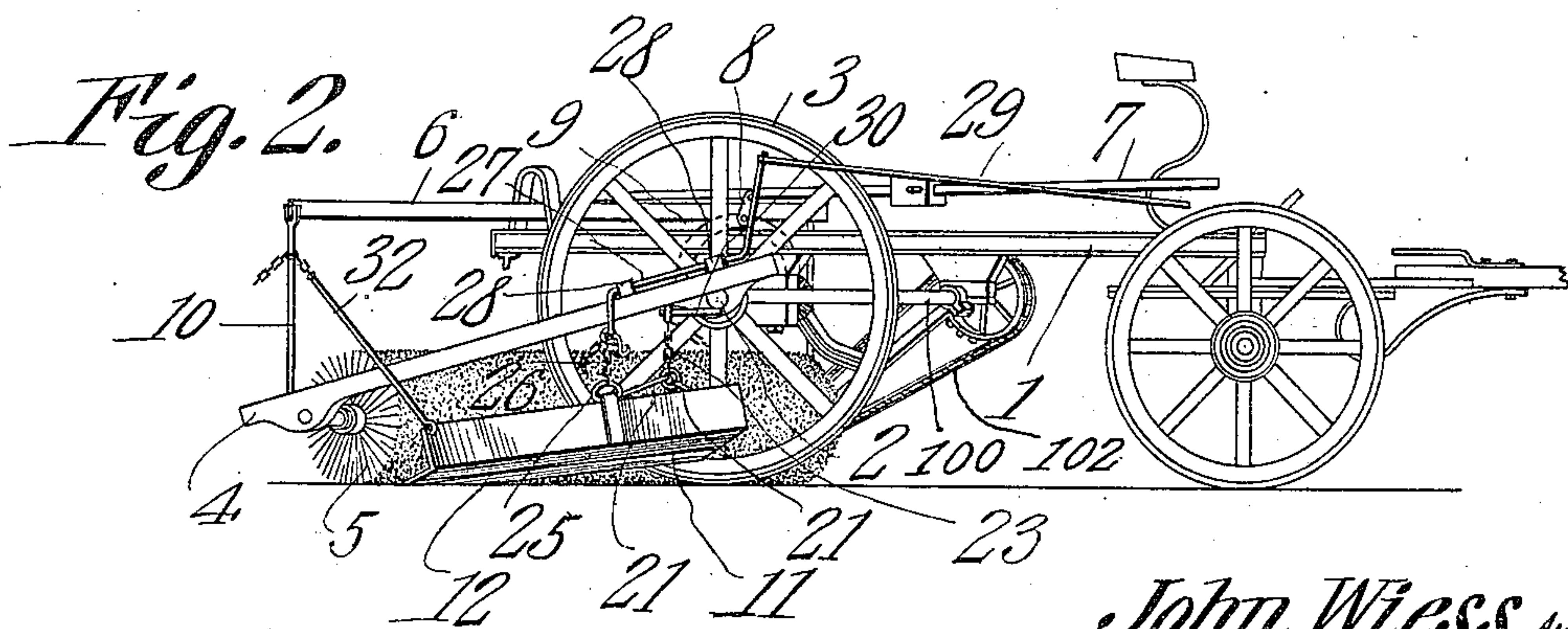
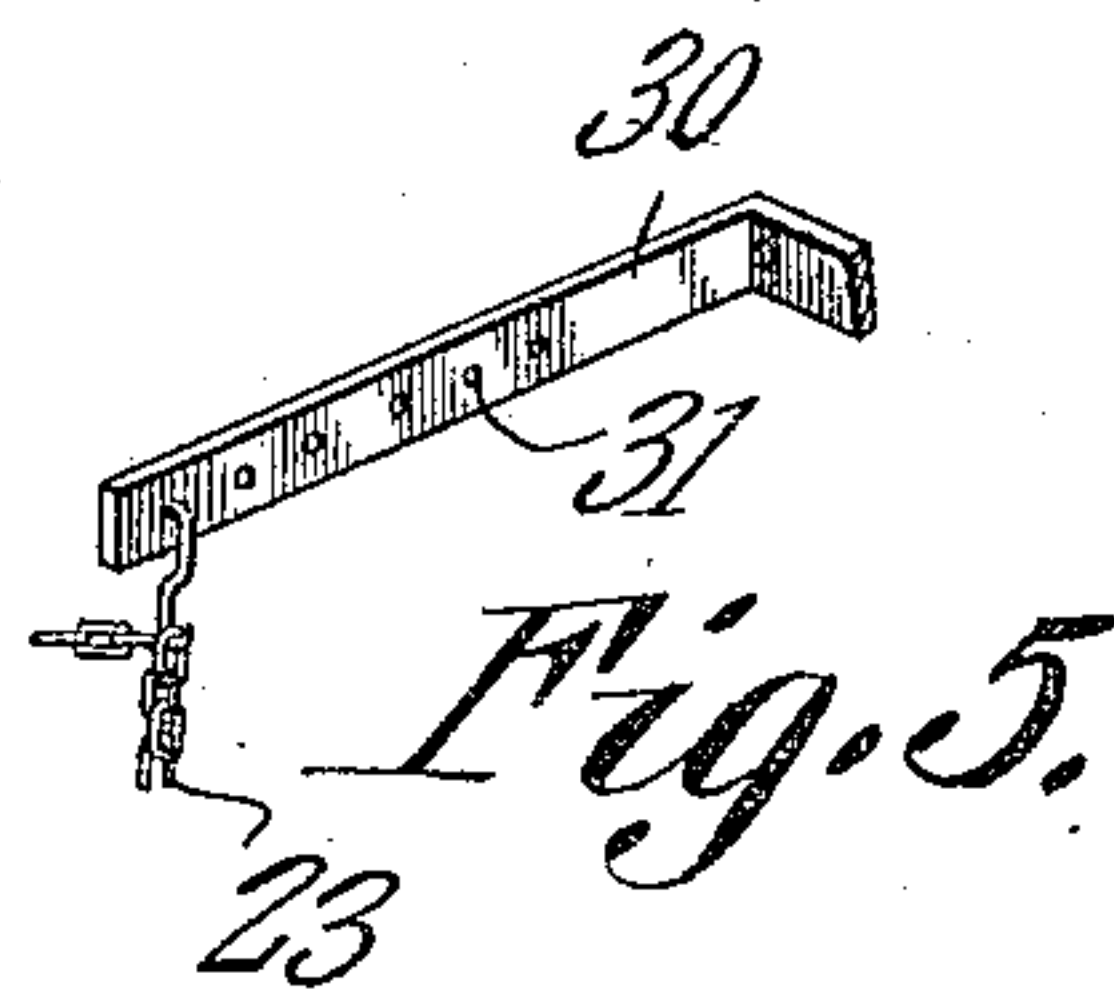
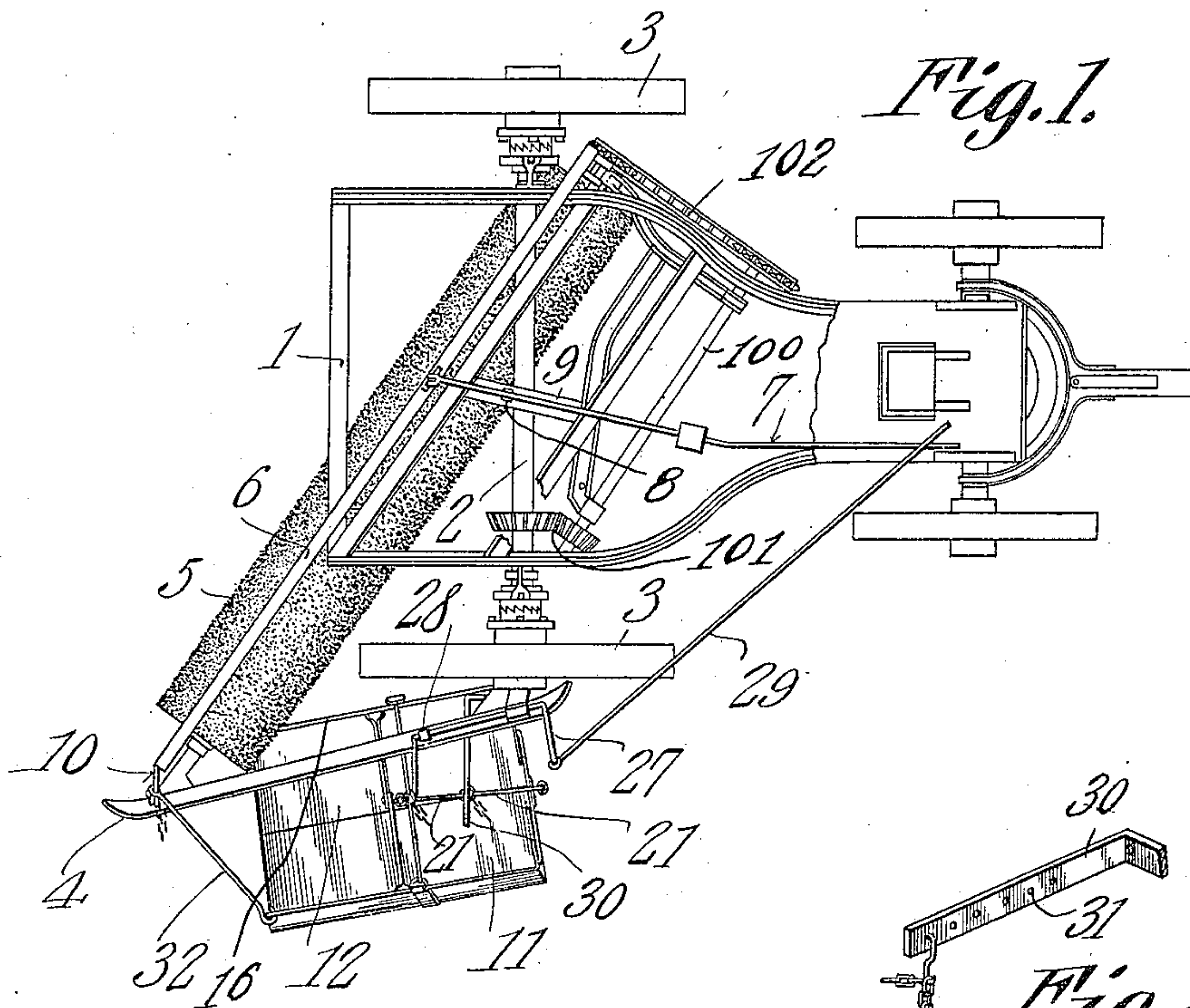


J. WIESS & W. McARTHUR.
ATTACHMENT FOR STREET SWEEPERS.
APPLICATION FILED JAN. 4, 1910.

990,322.

Patented Apr. 25, 1911.

2 SHEETS—SHEET 1.



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INVENTORS.

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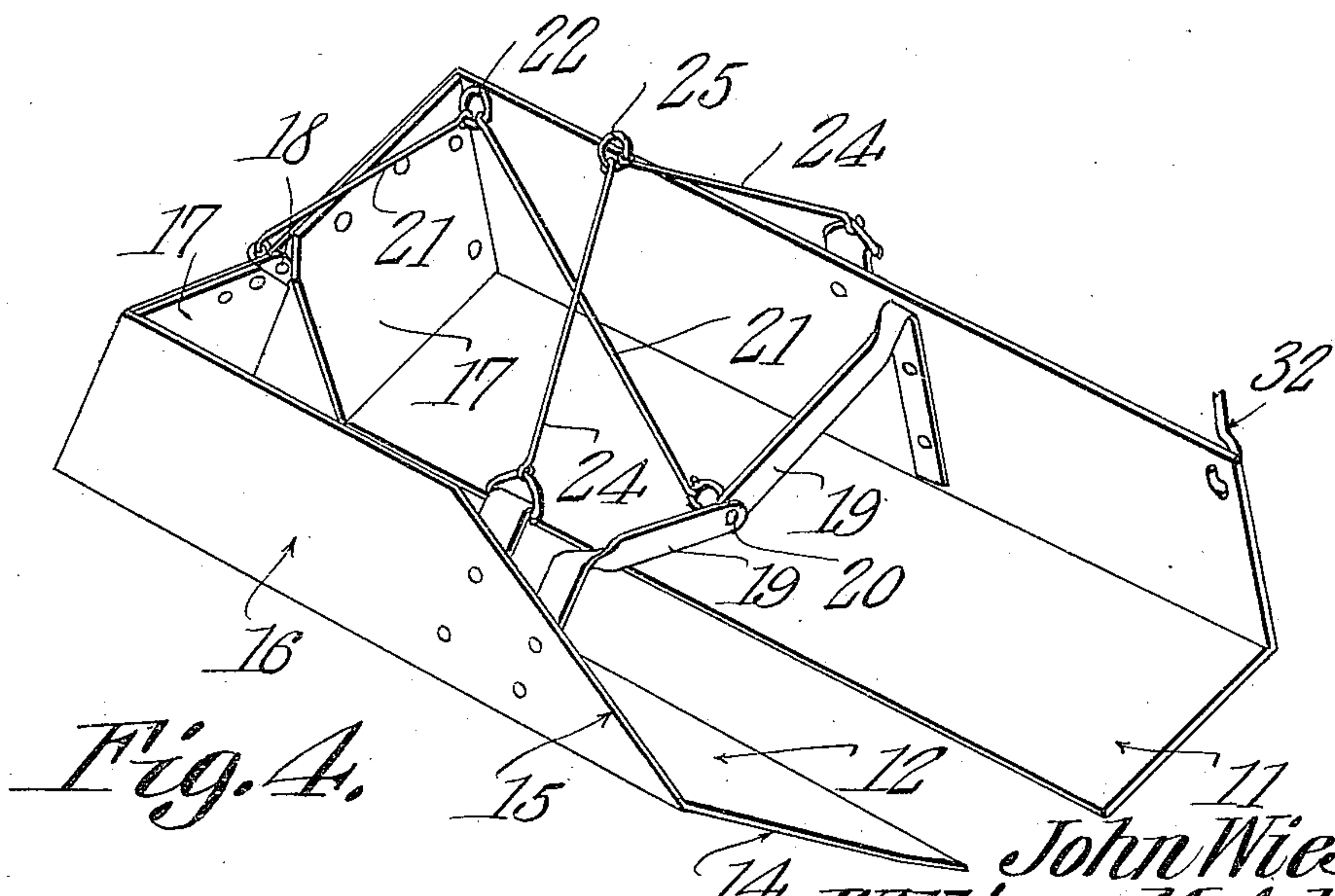
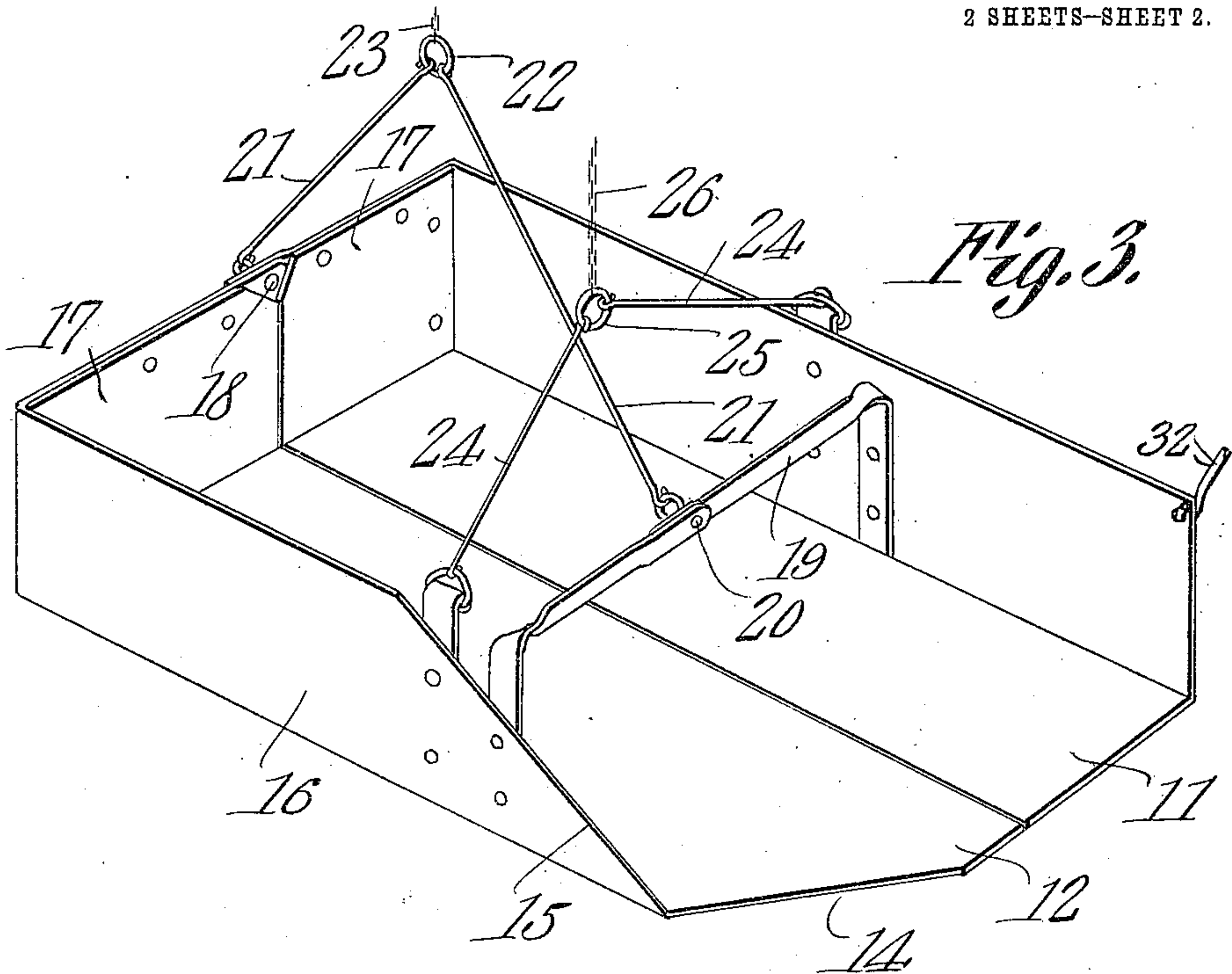
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UNITED STATES PATENT OFFICE.

JOHN WIESS, OF CHEHALIS, AND WILLIAM McARTHUR, OF TENINO, WASHINGTON.

ATTACHMENT FOR STREET-SWEEPERS.

990,322.

Specification of Letters Patent.

Patented Apr. 25, 1911.

Application filed January 4, 1910. Serial No. 536,255.

To all whom it may concern:

Be it known that we, JOHN WIESS and WILLIAM McARTHUR, citizens of the United States, residing, respectively, at Chehalis and Tenino, in the counties of Lewis and Thurston, State of Washington, have invented a new and useful Attachment for Street-Sweepers, of which the following is a specification.

It is the object of this invention to provide a pan which is adapted to be mounted upon a sweeper in such a manner that the pan may collect the sweepings as the same accumulate, novel means being provided for supporting the pan and for dumping the same when desired.

The drawings show but one form of the invention, and it is to be understood that changes, properly falling within the scope of what is claimed, may be made, without departing from the spirit of the invention.

Similar numerals of reference are employed to denote corresponding parts throughout the several figures of the drawings, wherein,—

Figure 1 is a top plan of a sweeper provided with the device of our invention. Fig. 2 is a side elevation of the showing of Fig. 1. Fig. 3 is a perspective of the pan in closed position. Fig. 4 is a perspective of the pan in open or dumping position. Fig. 5 is a detail perspective of the bracket for supporting the pan.

The invention is adapted to be used upon street sweepers of widely differing constructions, but, in order to present a concrete embodiment and to show clearly the manner in which the invention is adapted to be mounted, there is shown in the drawings, one form of sweeper, with which the invention may be assembled, and such parts of the sweeper as are necessary, will be described in detail, omitting such parts as have no function in the operation of the present invention.

The sweeper comprises a frame 1, in which is mounted in axle 2, carrying traction wheels 3. With one end of the axle 2, upon the exterior of one of the wheels 3, is pivotally mounted, a rearwardly extending arm 4, in the rear end of which is journaled for rotation, one end of a rotary brush 5. A connecting member 10 unites the rear end of the arm 4 with one end of a supporting bar 6 which, intermediate its ends, is carried upon the rear end of a lever 7, disposed longitudinally of the sweeper, and fulcrumed

at 8, intermediate its ends, upon an arch 9, carried by the frame 1.

An auxiliary shaft 100 is supported for rotation in the frame 1. This auxiliary shaft 100 is operatively connected with the axle 2 by means of beveled pinions 101, seen to best advantage in Fig. 1. The auxiliary shaft 100 is disposed substantially parallel to the rotary brush 5, the auxiliary shaft 100 and the rotary brush 5 being operatively connected by means of a chain belt 102. From the foregoing it will be seen that when the axle 2 is rotated, the brush 5 will be put in motion through the pinions 101, the auxiliary shaft 100, and the chain belt 102.

Referring to Figs. 3 and 4 of the drawings, the pan will be seen to be box-like in structure, the same comprising sections 11 and 12, the bottom of the section 12 being cut away at one corner as denoted by the numeral 14, and the adjacent side wall 16 of the section 12 being cut away as denoted by the numeral 15. The end walls 17 of the sections 11 and 12 are united, adjacent their upper edges, by means of a pivot element 18, in the present instance shown in the form of an eye-bolt. Intermediate their ends, the sections 11 and 12 are provided with inwardly extending arms 19, pivotally connected at 20, the specific means whereby the arms 19 are pivotally connected being, in the present instance, an eye-bolt of the form shown at 18. The remote ends of the rods 21 are mounted in the eye-bolts 18 and 20, the adjacent ends of the rods 21 being mounted in a ring 22 with which is connected one end of a flexible element 23, a chain or the like. The remote ends of rods 24 are connected with the sections 11 and 12 at their upper edges, and intermediate their ends, the adjacent ends of the rods 24 being mounted in a ring 25 which carries a chain 26.

By referring to Figs. 1 and 2 of the drawings, it will be seen that a bent lever 27 is mounted in bearings 28, carried by the rearwardly extending arm 4. One end of this bent lever 27 is adapted to be hooked into the chain 26, so that the length of the chain 26 may be adjusted, and the other end of the bent lever 27 is provided with a flexible element 29 adapted to be extended forwardly within easy reach of the driver. Transversely mounted upon the arm 4 is a bracket 30, having a plurality of openings 31 into which the upper end of the chain 23 is adapted to be successively hooked, to sup-

port, adjustably, one end of the pan, the other end of the pan being provided with a connection 32, connected at one end with the section 11, and at the other end adapted to be adjustably secured to the connection 10 whereby the supporting bar 6 is connected with the arm 4. Owing to the manner in which the section 12 is cut away at 14 and at 15, and owing to the manner in which the pan as an entity is supported from the sweeper, the dirt accumulated by the rotary brush 5 will be swept into the pan, and when the desired amount of dirt has accumulated in the pan, the bent lever 27 may be operated from the driver's seat by means of the element 29, dumping the contents of the pan in a heap, at any desired point.

It is to be noted that the rear end of the bent lever 27 may be hooked into the chain 26 at successive points along the chain. Owing to this fact, the angle at which that end of the lever 27 to which the member 29 is attached, stands, may be changed, thereby permitting the driver of the vehicle to exert a pull upon the member 29 which will be effective to tilt the bent lever 27 and to dump the pan. Moreover, the hook in the end of the member 23 may be inserted successively in the holes 31 of the bracket 30, as Fig. 5 will serve to show. By thus hooking the member 23 successively in the holes 31, the position of the forward end of the dumping pan may be adjusted transversely of the line in which the device is drawn, thus altering the angle between the pan and the rotary brush 5, so that the pan will receive the sweepings from the brush. By shortening the connection 32 it will be seen, (referring particularly to Fig. 2) that the rear end of the pan may be raised and lowered, the pan being likewise tilted transversely of the line of advance of the structure, to dispose the cut away portion 14 of the pan (see Fig. 3) upon, or in close proximity to the ground.

Having thus described the invention what is claimed is:—

1. In a device of the class described, a sweeper comprising a frame; an axle carried by the frame; traction wheels mounted upon the axle; an arm rearwardly extended from one end of the axle upon the exterior of one wheel; a rotary brush journaled at one end in the arm; a pan suspended from the sweeper beyond the wheel and in close

proximity to one end of the brush; and means mounted upon the arm for dumping the pan.

2. In a device of the class described, a sweeper comprising a frame; an axle carried by the frame; traction wheels mounted upon the axle; an arm rearwardly extended from one end of the axle upon the exterior of one wheel; a rotary brush journaled at one end in the arm; a pan suspended from the sweeper beyond the wheel and in close proximity to one end of the brush; a bent lever fulcrumed upon the arm; an adjustable connection between the lever and the pan; and means extended forwardly from the lever to operate the same to dump the pan.

3. In a device of the class described, a sweeper comprising a frame; an axle carried by the frame; traction wheels mounted upon the axle; an arm rearwardly extended from one end of the axle upon the exterior of one wheel; a rotary brush journaled at one end in the arm; a supporting bar adjustably carried by the frame and operatively connected with the arm; adjustable means connecting the bar with one end of the pan to support the same in close proximity with one end of the brush; adjustable means connecting the arm to the pan to support the other end of the pan; and means mounted upon the arm for dumping the pan.

4. In a device of the class described, a sweeper comprising a frame; an axle carried by the frame; traction wheels mounted upon the axle; an arm rearwardly extended from one end of the axle upon the exterior of one wheel; a rotary brush journaled in the arm; a supporting bar adjustably carried by the frame and operatively connected with the arm; adjustable means connecting the bar with the pan to support one end of the pan in close proximity to one end of the brush; a bracket transversely mounted upon the arm; and adjustable means connecting the bracket with the pan to support the other end of the pan; and means carried by the arm for dumping the pan.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

JOHN WIESS.

WILLIAM McARTHUR.

Witnesses:

C. A. STUDEBAKER,
H. TULLEY COOK.