

(No Model.)

A. GARTNER.  
STREET SWEEPER.

No. 572,790.

Patented Dec. 8, 1896.

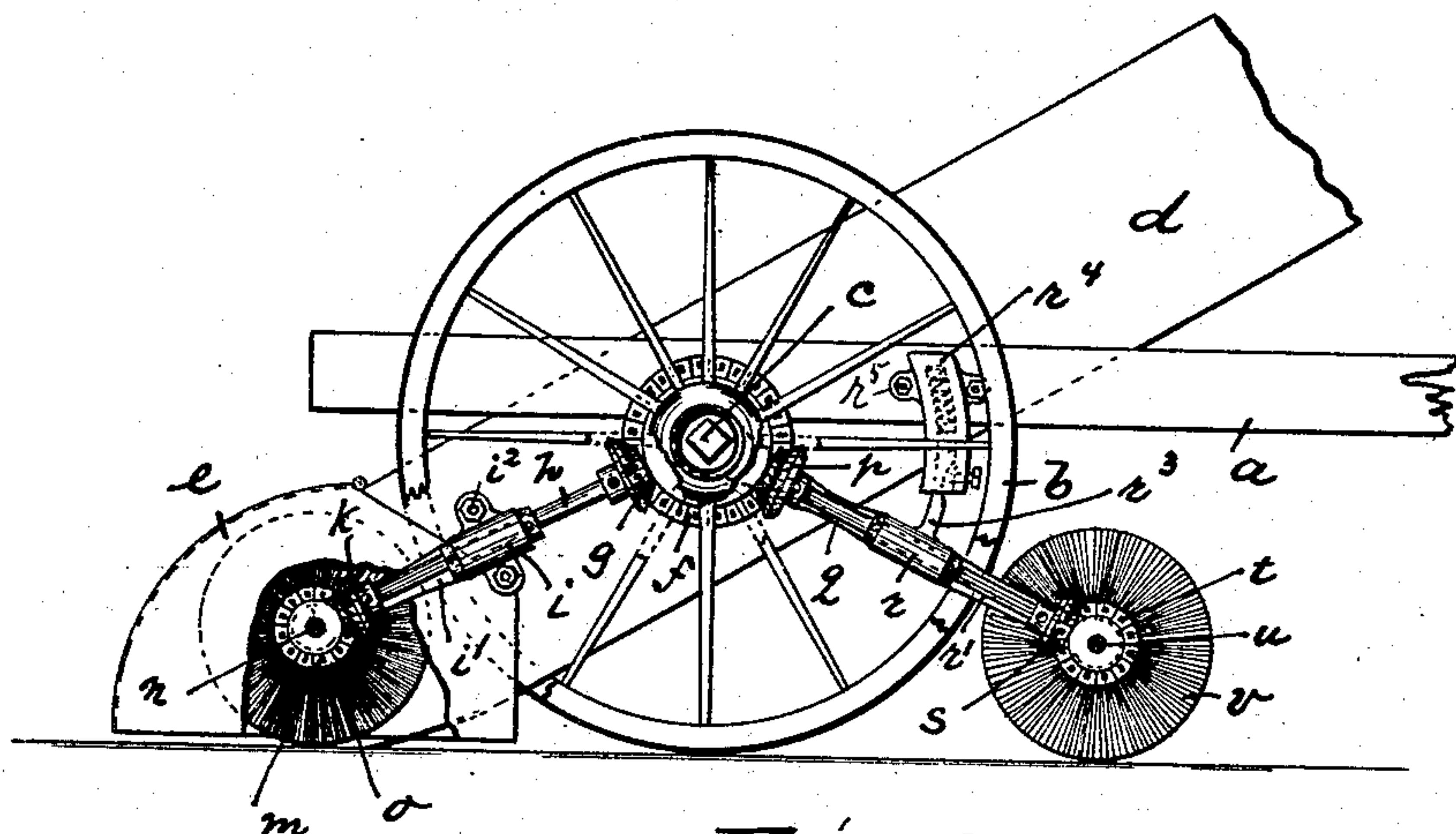


Fig. 1.

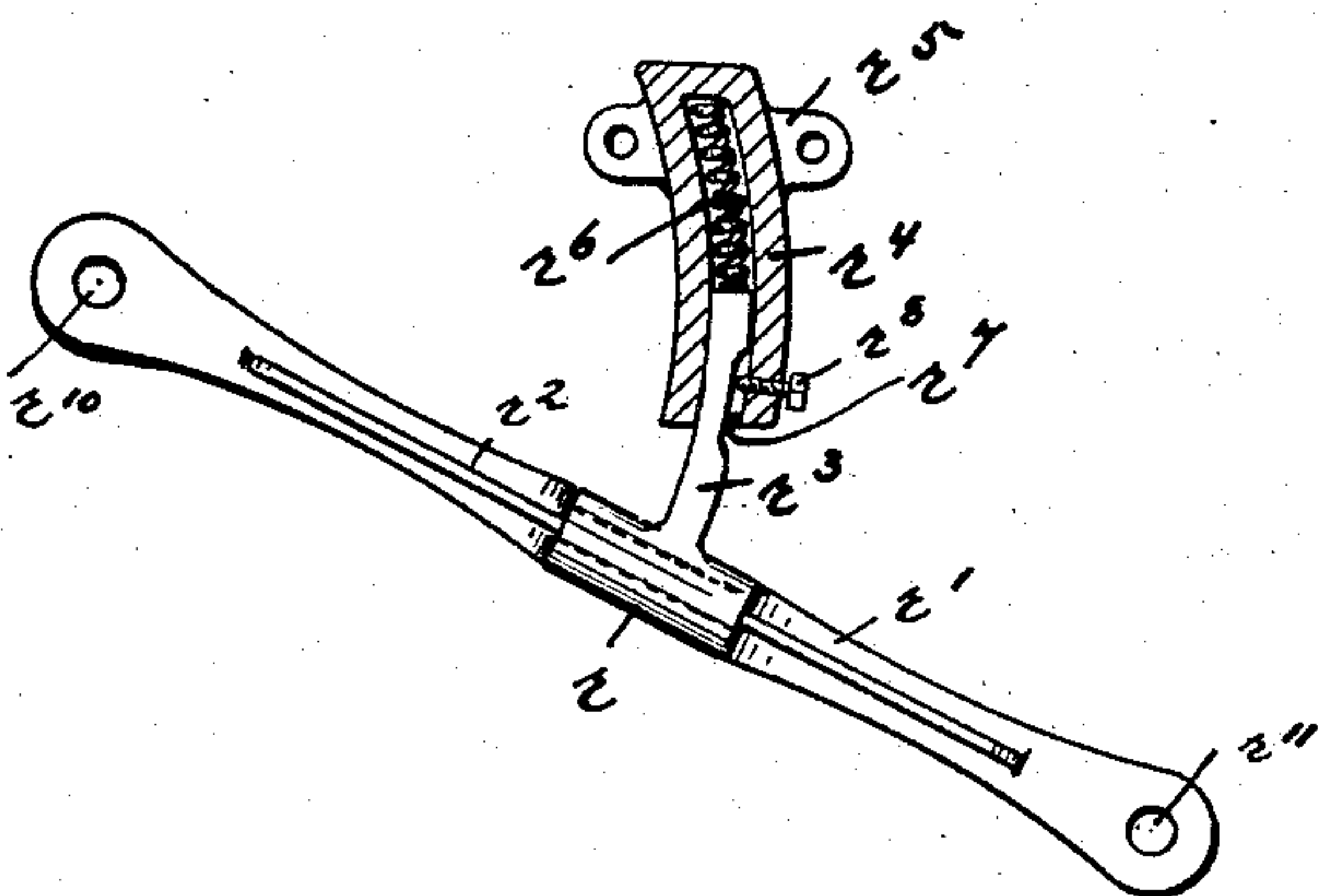


Fig. 2.

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# UNITED STATES PATENT OFFICE.

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## STREET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 572,790, dated December 8, 1896.

Application filed April 27, 1896. Serial No. 589,195. (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED GARTNER, a citizen of the United States, residing in Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Street-Sweepers; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in street-sweepers of the class as illustrated in the United States Letters Patent No. 558,719, dated April 21, 1896. Its object is to provide a street-sweeper with an auxiliary brush arranged in front of the elevator-casing and being self-adjustable.

The invention consists in the improved street-sweeper and in the combination and arrangement of the various parts thereof, substantially as will be hereinafter more fully described, and finally embodied in the clauses of the claim.

In the accompanying drawings, Figure 1 is a side elevation of a portion of a street-sweeper provided with my improvement, only those parts of the sweeper being shown which are necessary to fully illustrate the nature of my said invention; and Fig. 2, an enlarged detail view of the adjustable bracket supporting the auxiliary brush.

In said drawings, *a* represents the truck, *b* the rear wheels, and *c* the axle for the same. The inclined elevator-casing *d* is fulcrumed on said axle and is provided at its lower end with the hood *e*, covering the revolving brush *o*, all of the usual and well-known construction.

The revolving brush *o* is mounted on the shaft *n*, having its bearings in the bracket-plates *i'*, which are secured by means of the bolts *i''* to the sides of the casing, as clearly shown in Fig. 1 of the drawings.

On one end of the shaft *n* is secured the beveled gear *m*, meshing into beveled pinion *k*, arranged at the lower end of the shaft *h*, which latter has its bearing in the sleeve or bracket *i*, integral with and projecting from

the bracket-plate *i'*. At the upper end of said shaft is also secured a beveled pinion *g*, meshing into the beveled gear *f*, which latter is mounted on the axle *c* and arranged between the casing *d* and the wheel *b*.

On the axle *c* and on each side of the casing are suspended (by means of the holes *r<sup>10</sup>*) the bracket frames or links *r<sup>2</sup>*, the lower portions *r'* of which are provided with openings *r<sup>11</sup>*, adapted to receive and thus form the bearing for the shaft *u* of the auxiliary brush *v*, which shaft and brush are parallel to the shaft *n* of the revolving brush *o*. On one side of the link *r<sup>2</sup>* is arranged an extension or arm *r<sup>3</sup>*, (curved concentrically to the center of the axle *c*,) adapted to slide in the guide-block *r<sup>4</sup>*, provided with lugs *r<sup>5</sup>*, by means of which said blocks are secured to the truck *a*, as clearly shown. The arm *r<sup>3</sup>* is provided with an elongated groove *r<sup>7</sup>*, adapted to be engaged by the set-screw *r<sup>8</sup>*, arranged in the said guide-block *r<sup>4</sup>* and adapted to limit the movement of the said arm *r<sup>3</sup>* and its bracket-plate *r<sup>2</sup>*. A spiral spring *r<sup>6</sup>* is placed in the said guide-block *r<sup>4</sup>* and bears against the arms *r<sup>3</sup>*, and thus controls the movement of the bracket-plates *r<sup>2</sup>*, as will be manifest.

The bracket-plate *r<sup>2</sup>* (on one side of the casing) is provided with a sleeve or bracket *r*, forming the bearing for the shaft *g*, on which are mounted at opposite ends the beveled pinions *p* and *s*, respectively, the pinion *p* meshing into the beveled gear *f* on the axle *c*, while the pinion *s* meshes into the beveled gear *t*, which latter is secured on the shaft *u* of the auxiliary brush *v*.

As clearly shown in the drawings, the auxiliary brush *v* is arranged in front of the elevator-casing, and the bracket plates or links supporting the shaft for said brush at an obtuse angle to the bracket plates or links supporting the shaft of the revolving brush *o*.

In operation the auxiliary brush loosens the dust and dirt, which afterward is swept into the elevator-casing by means of the revolving brush *o*.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a street-sweeper, the combination with the truck on wheels, of an inclined ele-



vator-casing fulcrumed on the axle of the rear wheels, a revolving brush mounted at the lower end of said casing, a link on each side of the casing and fulcrumed on the axle, 5 an auxiliary brush mounted at the lower end of said links and parallel to the revolving brush, means for transmitting the motion from the axle to the revolving brush and to the auxiliary brush, a curved arm projecting 10 from each link, a guide-block secured to the truck and adapted to engage said curved arm, and a spiral spring in said block and bearing against said arm, all said parts, substantially as and for purposes described.

15 2. In a street-sweeper, the combination with the truck on wheels, of an inclined elevator-casing fulcrumed on the axle of the rear wheels, a bracket-plate secured on each side of the casing, the revolving brush carried by said bracket-plates and arranged at 20 the lower end of the casing, a link on each side of the casing and also fulcrumed on the axle and arranged at an obtuse angle to the casing, an auxiliary brush carried by said

links and arranged parallel to the revolving 25 brush and in front of the casing, a curved arm projecting from each link, a guide-block secured to the truck and adapted to engage said curved arm, a spiral spring in said block and bearing against said arm, a beveled gear 30 mounted on the axle, a beveled pinion meshing into said beveled gear, a shaft supporting said pinion, and having its bearings on the link, a beveled pinion mounted at the 35 lower end of said shaft, a beveled gear meshing into said pinion and mounted on the auxiliary brush-carrying shaft, and means for transmitting the motion from the beveled gear on the axle to the revolving brush, all 40 said parts, substantially as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of April, 1896.

ALFRED GARTNER.

Witnesses:

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