

No. 628,505.

Patented July 11, 1899.

G. L. WESTMAN.
PNEUMATIC CARPET SWEEPER.

(Application filed Nov. 5, 1898.)

(No Model.)

Fig. 1.

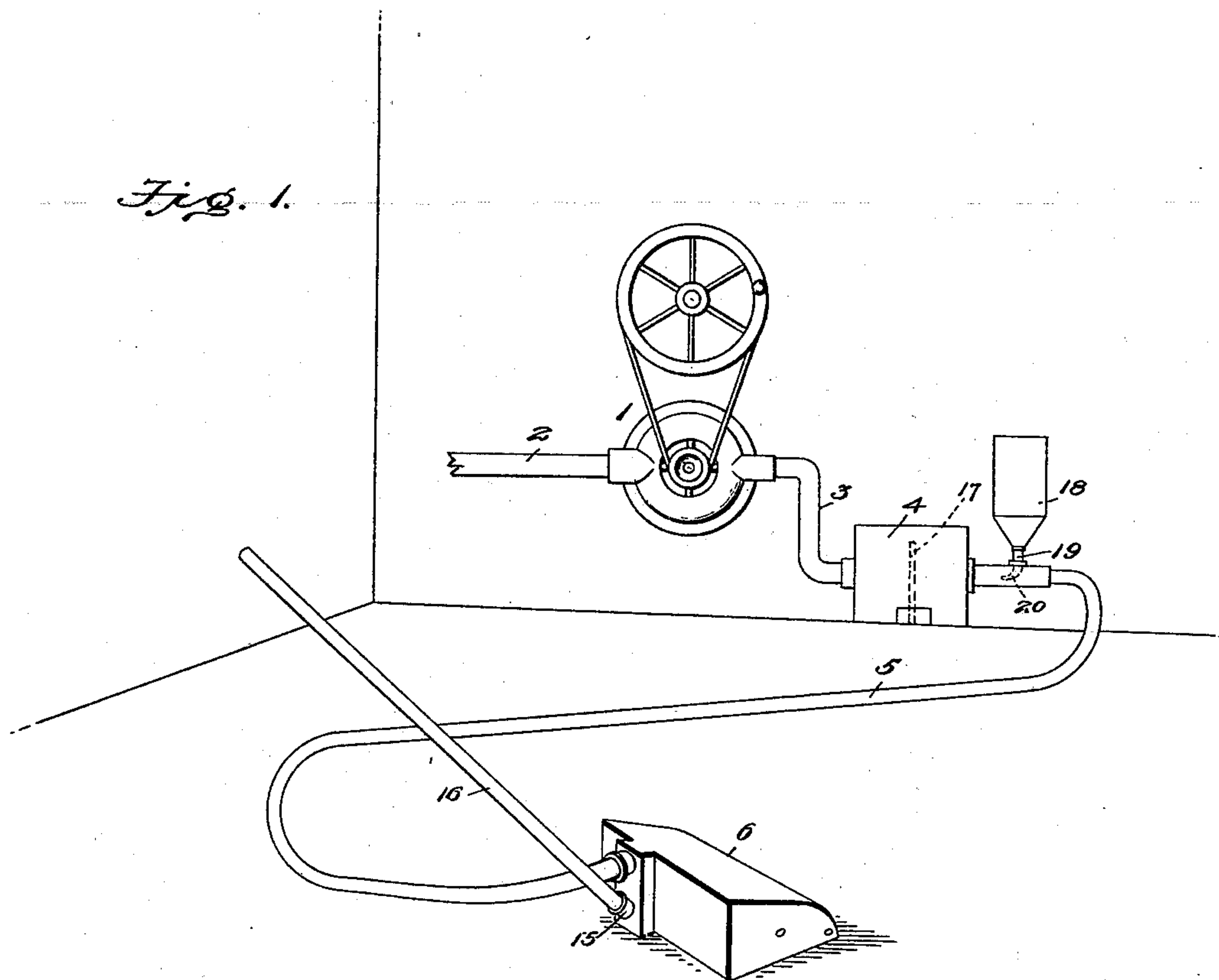


Fig. 2.

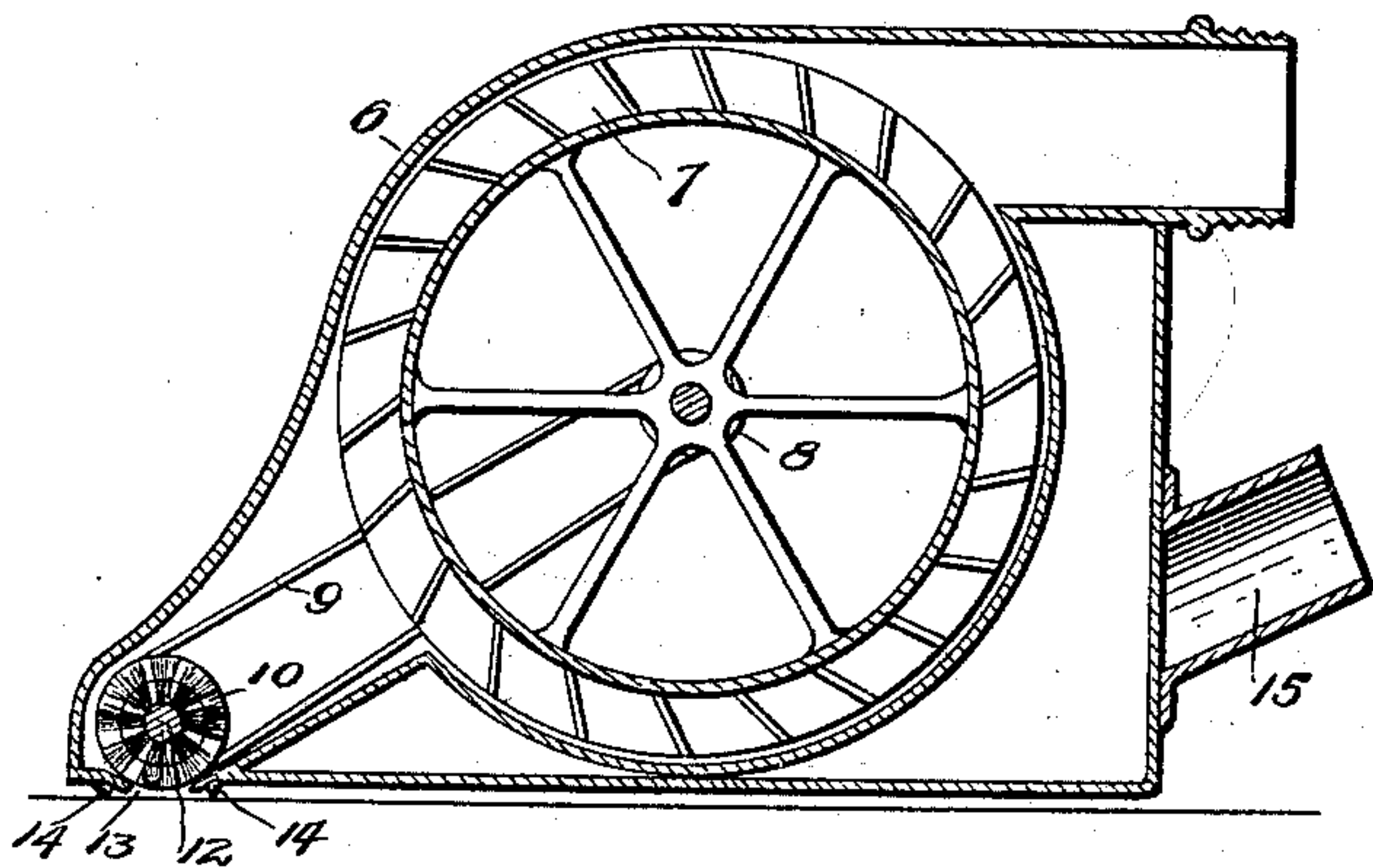
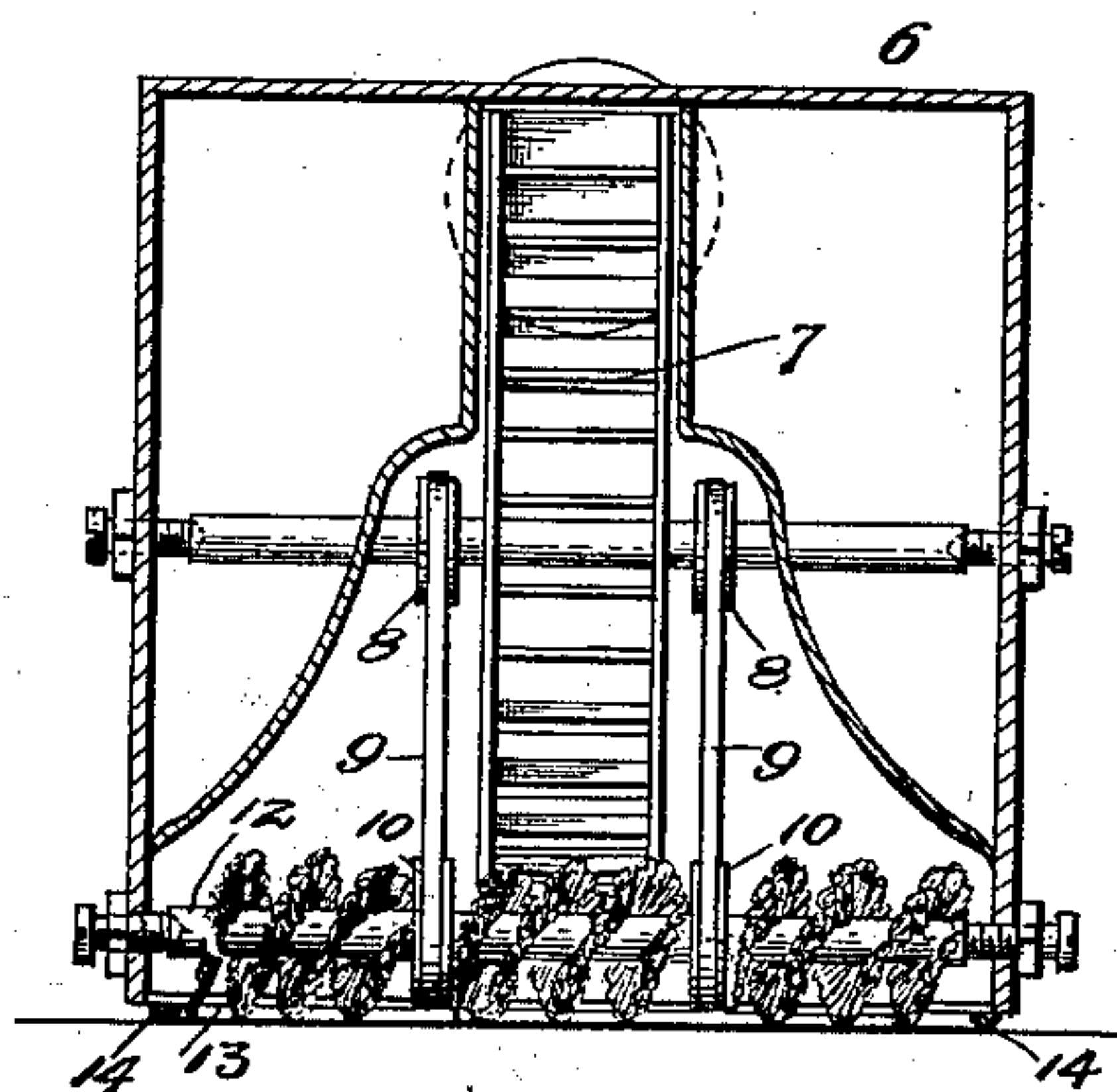


Fig. 3.



Inventor

George L. Westman

Witnesses
C. Hunt
J. H. Wilson

by

A. B. Wilson & Co

Attorneys

UNITED STATES PATENT OFFICE.

GEORGE L. WESTMAN, OF RICHMOND, VIRGINIA.

PNEUMATIC CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 628,505, dated July 11, 1899.

Application filed November 5, 1898. Serial No. 695,597. (No model.)

To all whom it may concern:

Be it known that I, GEORGE L. WESTMAN, a citizen of the United States, residing at Richmond, in the county of Henrico and State of Virginia, have invented certain new and useful Improvements in Pneumatic Carpet-Dusters; and I do 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.

My invention relates to portable pneumatic carpet-dusters; and the object is to provide a simple, inexpensive, and effective machine of this character for expeditiously and effectively removing the dust and dirt from a carpet without removing it from the floor.

To this end the invention consists in the construction, combination, and arrangement of the several elements of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a schematic view illustrating my improved carpet-duster. Fig. 2 is a vertical longitudinal section of the duster proper. Fig. 3 is a front elevation, partly in section, of the same.

1 denotes a hand-operated exhaust-fan having an outlet-pipe 2 and an inlet-pipe 3 communicating with the settling-box 4, and from the settling-box a flexible hose-pipe 5 extends to the duster-box 6.

The duster-box is provided with a suction-fan 7, mounted on a suitable shaft, which carries the grooved pulleys 8 8, from which endless belts 9 9 extend to corresponding pulleys 10 10 on the brush-shaft 12, which is mounted in the mouth of the air and dust inlet 13, formed in the bottom of the duster-box. A suitable guard or continuous rib 14 extends entirely around the bottom edge of the inlet and is the support on which the duster-box rests when in operation while the carpet is on the floor. The duster-box is also provided with a diagonal socket 15 to receive the handle 16, by which the duster-box is manipulated.

The settling-box is provided with a trans-

verse partition 17, having a passage-way for the air over its upper edge, and 18 indicates a spray disinfectant-reservoir, the bottom of which is provided with an outlet-pipe 19, which terminates in a jet-nozzle 20, extending into the pipe 5, so that when the air is exhausted or partially exhausted the liquid in the reservoir will be discharged through said nozzle and impregnate the mixed dust and air passing through said hose-pipe.

The operation is as follows: An assistant manipulates the exhaust-fan 1 while the operator passes the duster-box 6 across the carpet, the guard or rib 14 forming a packing around the inlet 13 and at the same time by its abrasive action loosening the nap or pile of the carpet, and thereby liberating the dust and refuse matter, which is removed by the revolving brush and drawn by suction through the flexible hose-pipe, being mixed in its passage by the spray from the nozzle 20, and during its passage through the settling-box the particles of foreign matter are arrested by the partition 17, while the air is drawn over the partition and through the exhaust-fan 1 and its outlet-pipe 2, whence it is discharged outside of the apartment. The settling-box is provided with an air-tight door 21, by means of which the refuse may be removed from time to time.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

In a carpet-dusting device, the combination with a normally stationary exhaust-fan and a portable duster-box connected thereto by a flexible suction-pipe, of a suction-fan mounted in said box in the path of the air-current, and a rotary brush mounted in said box and operatively connected to said suction-fan, substantially as shown and described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GEORGE L. WESTMAN.

Witnesses:

H. J. ENNIS,
SAML. A. DRURY.