

No. 871,054.

PATENTED NOV. 12, 1907.

R. M. BAKER.
SWEEPING DEVICE.
APPLICATION FILED DEC. 28, 1906.

2 SHEETS—SHEET 1.

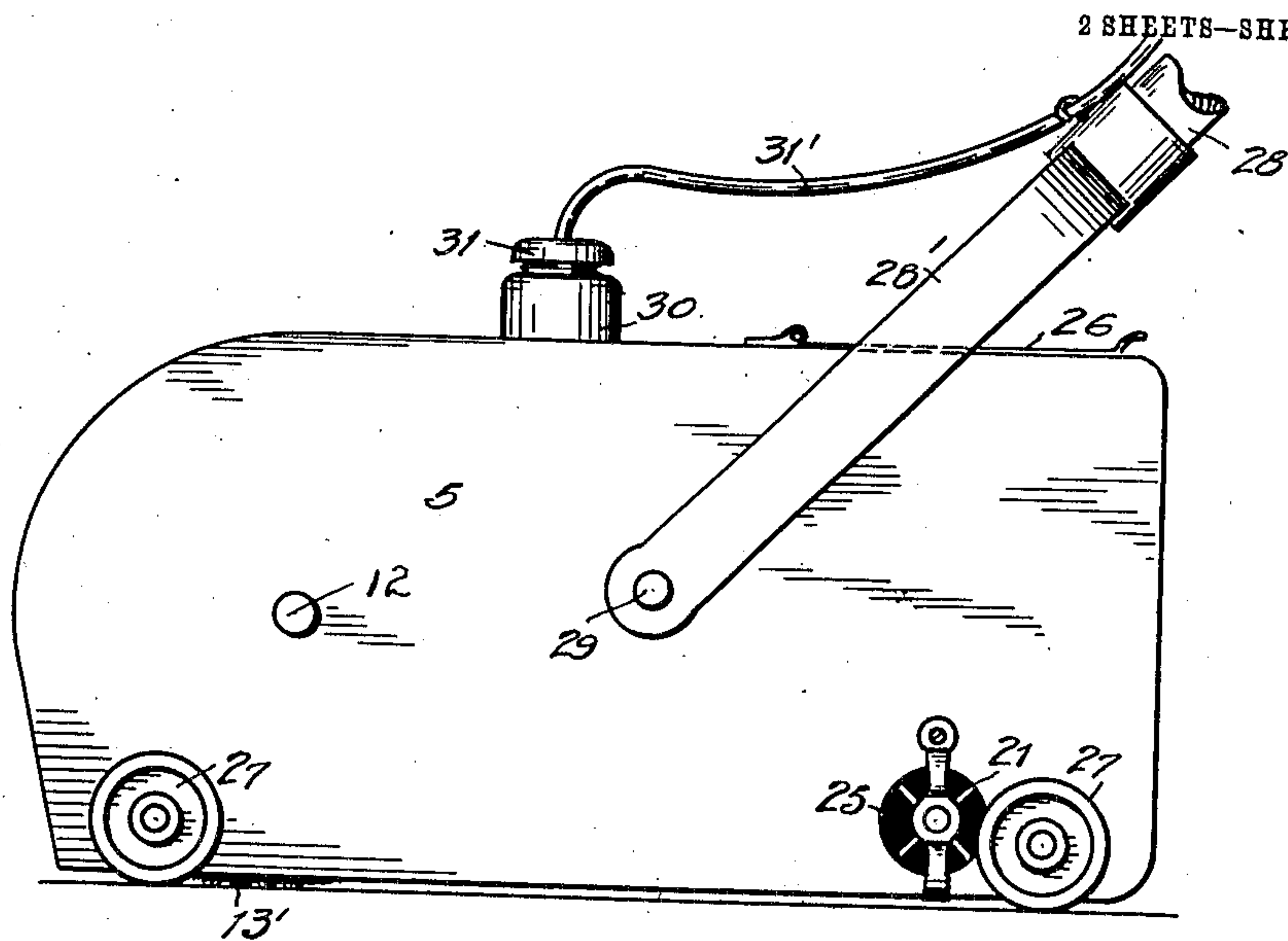


FIG. 1

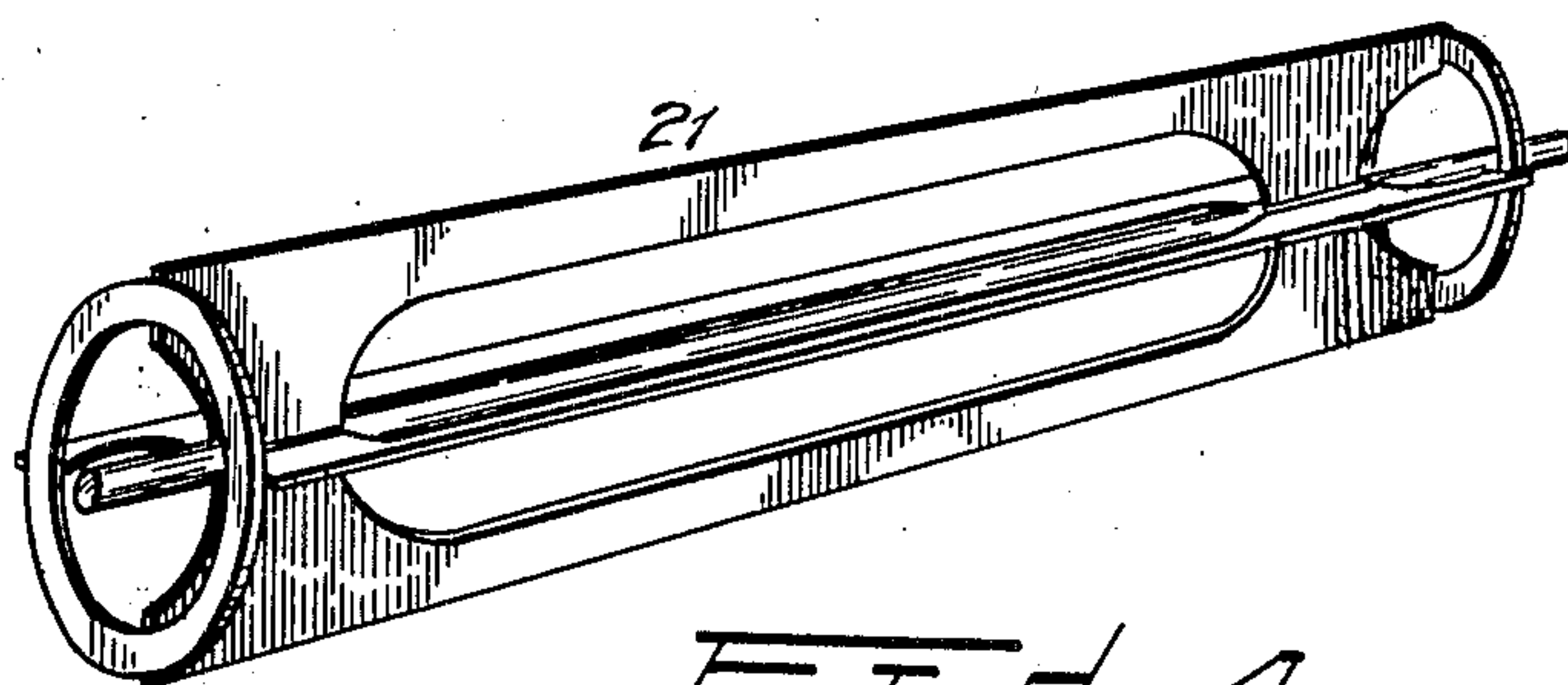


FIG. 4

WITNESSES:

Horace Barnes
Olaf Ohlson

INVENTOR

Russell M. Baker
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ATTORNEY

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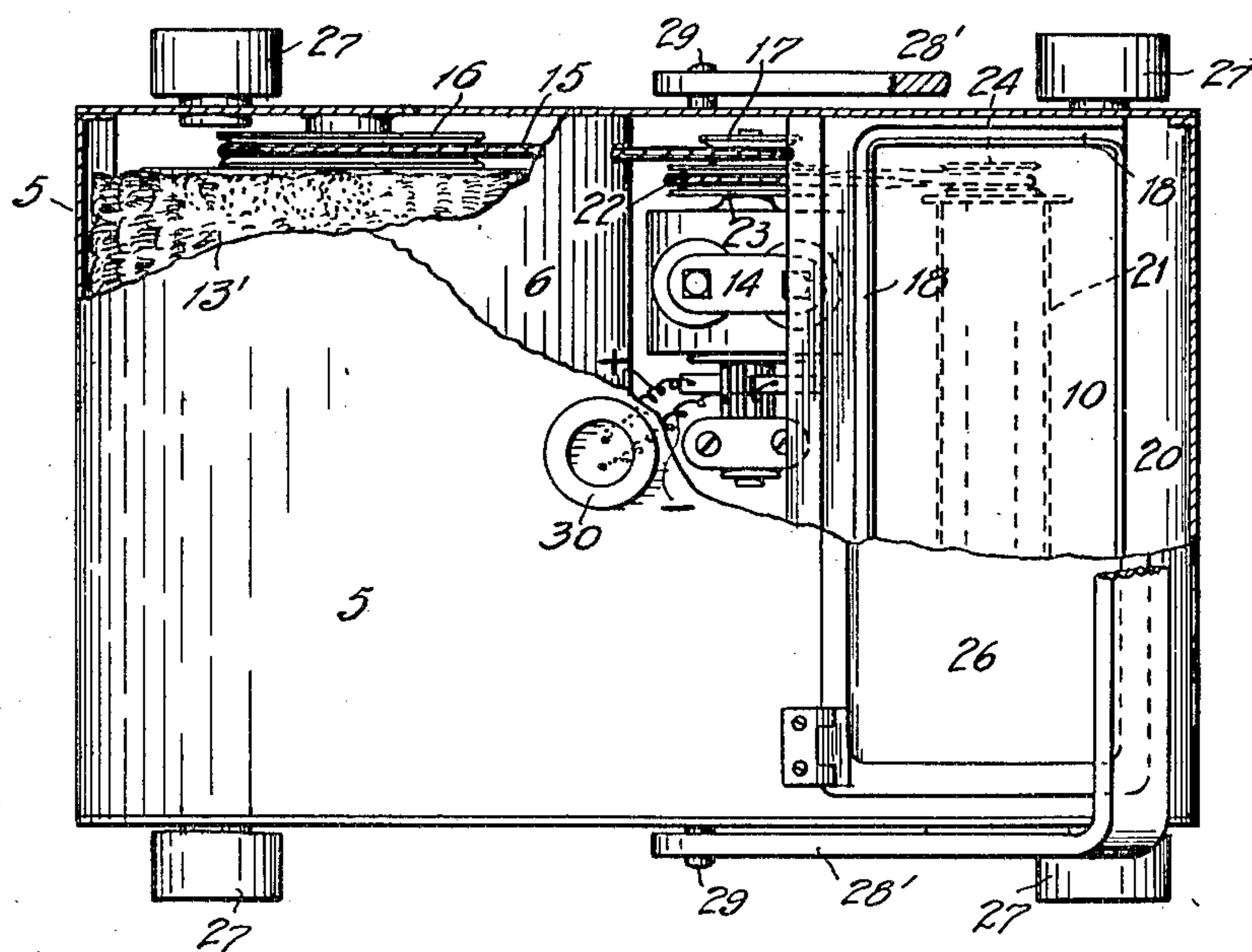
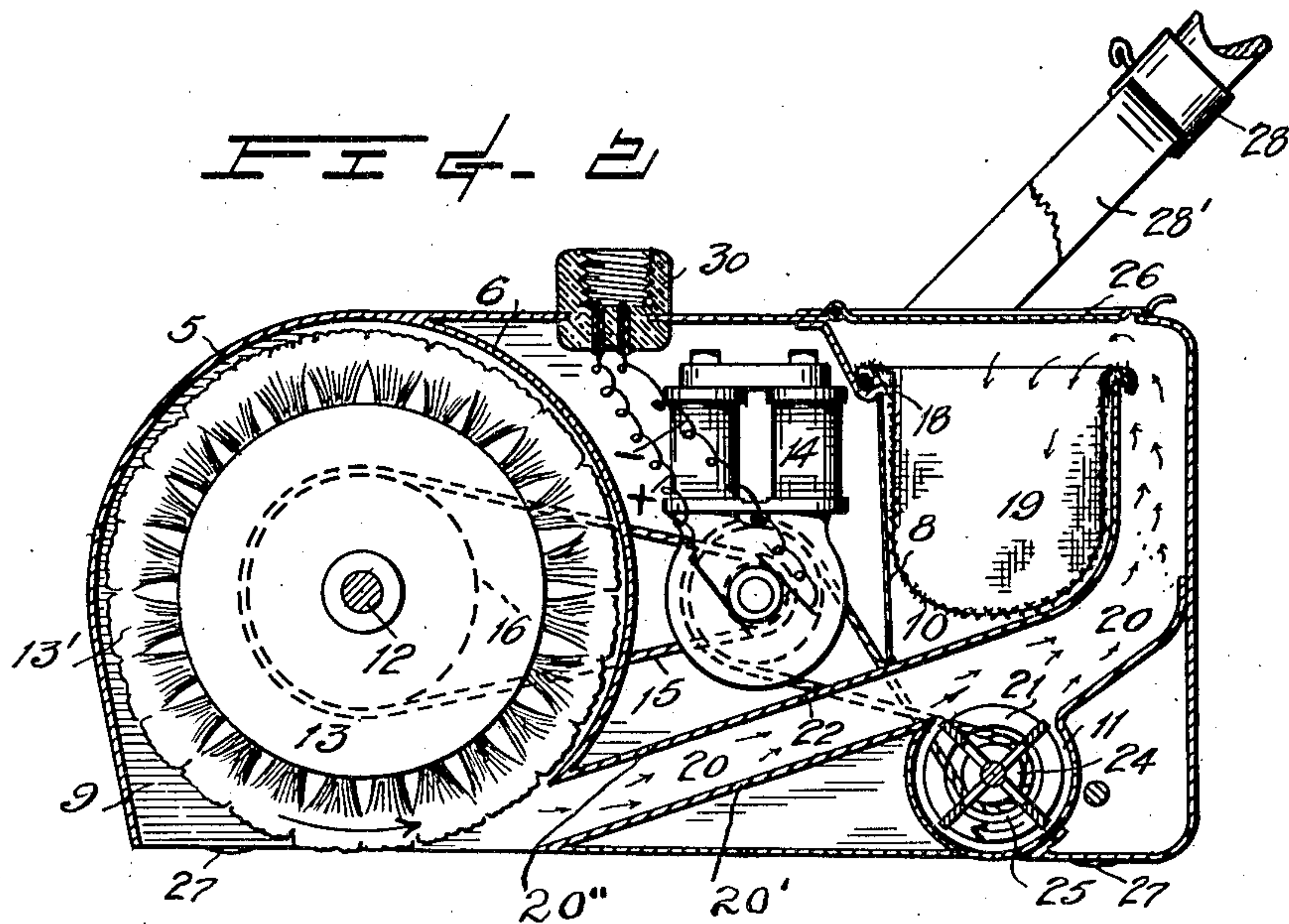


FIG. 3

WITNESSES:

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UNITED STATES PATENT OFFICE.

RUSSELL M. BAKER, OF SEATTLE, WASHINGTON.

SWEEPING DEVICE.

No. 871,054.

Specification of Letters Patent.

Patented Nov. 12, 1907.

Application filed December 28, 1906. Serial No. 349,779.

To all whom it may concern:

Be it known that I, RUSSELL M. BAKER, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Sweeping Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to carpet-sweepers, and the like; and its principal object is to produce an efficient, convenient and durable device of this character which can be manipulated with but little labor on the part of the operator.

The invention consists in the novel construction, adaptation and combination of parts as will be hereafter described and claimed.

In said drawings, where similar reference characters designate corresponding parts in all of the figures,—Figure 1 is a side elevation of apparatus embodying my invention; Fig. 2, a longitudinal vertical section of the same; Fig. 3, a plan view of the device, with the casing partly broken away; and Fig. 4, a detached perspective view of the rotary blower.

The reference numeral 5 represents a casing of suitable material and construction to contain the operative parts of the invention and is divided by transverse partitions 6, and 8 to form a brush compartment 9, and a compartment 10, to receive the dirt receptacle.

Mounted upon a transversely arranged arbor 12 within compartment 9, is a drum 13 having on its periphery bristles 13', to form a rotatable brush. The brush is driven from an electrically actuated motor 14 and, desirably, by a belt 15 passing about grooved pulleys 16 and 17, respectively, upon the arbor and armature shaft.

Within the compartment 10 and in proximity to the other end of the casing from the brush is a shelf 18 from which is removably suspended a cloth sack 19 providing the dirt receptacle. Communication is made between the space above the plane of said shelf and to the rear of the lower side of the brush by a passage 20 whereby the dirt and dust swept rearwardly by the brush is conducted into the sack when acted upon by a current of air generated by a rotary fan 21 positioned in the communicating compartment 11. The fan is, like the brush, driven from said motor as by belt 22 about driving pulley 23 of the armature shaft and pulley 24 upon the fan shaft. The casing is provided with apertures 25 in axial alignment with the fan through which air is admitted to the latter and is thence expelled centrifugally into the passage 20. The sweepings are deposited in the sack and the accompanying air escapes through the

interstices of the latter and the perforations of the partition 8 and thence into the atmosphere. 26 is a hinged lid above the compartment 10 and through which the sack may be taken out for emptying the dirt accumulations or replaced to receive a fresh charge.

The device is mounted upon wheels 27 and propelled by being shoved through the medium of a handle bar 28 which is bifurcated as at 28' to straddle the casing and be connected therewith by trunnions 29.

The current to actuate the motor is conveyed through wires + and — of an incomplete circuit connecting the motor with a terminal socket 30, whereinto a registering plug 31 of an extension 31' of electric conductors may be had with any available supply of the power medium as, for example, the sockets employed for electric-light bulbs commonly found in modern living- or office-rooms.

The operation of the invention will, it is thought, be understood from the foregoing.

Passage 20, which is inclined is formed of a lower wall 20' and an upper wall 20'' the latter at its rear end being turned upwardly and being spaced from the rear end of casing 5, and forming a support for one side of the receptacle 19; partition 8, extending upwardly from wall 20'' and defining in conjunction with said upturned end the side walls of compartment 10; partition 8, extending upwardly to engage shelf 18. The lower wall 20' is formed with an arc-shaped depression which forms a fan compartment 11, the rear end of this wall being secured to the rear end of the casing.

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

1. A carpet sweeper embodying a casing, two spaced inclined walls in said casing forming a passage therebetween, the upper of said walls being turned upwardly, a shelf spaced from said upturned end, a partition extending between said shelf and said upper wall, a dirt receptacle supported from said shelf and said upturned end, a brush, and a fan each in communication with said passage, and means for driving said brush and fan.

2. A carpet sweeper comprising a casing, an inclined lower and an inclined upper wall in said casing, said lower wall being secured to the rear end of the casing and having an arc-shaped depression forming a fan compartment, said upper wall forming a passage in conjunction with the lower wall and having its rear end upturned and spaced from said rear end of the casing, a supporting element carried by the casing and spaced from said upturned end, a dirt receptacle supported from said upturned end and said supporting element, a fan in said fan compartment, a brush, and means for actuating said fan and brush.

3. A carpet sweeper comprising a casing, inclined walls forming a passage therebetween, one of said walls forming a continuation of the said passage in conjunction with the rear end of the casing, a brush at the lower end of said

passage, a fan located intermediate the length of said passage and having communication with the latter, and a dirt receptacle at the upper end of said passage and communicating therewith.

- 5 4. A carpet sweeper comprising a casing, a lower inclined wall, an upper inclined wall spaced from said lower inclined wall, a partition extending from the lower end of the upper wall to the casing top to form a brush compartment, the rear end of said upper wall being upturned,
- 10 a second partition secured to said upper wall and said casing top at points between said upturned end and said

first named partition to form a dirt compartment in conjunction with said upturned end, a brush in the brush compartment, and a fan communicating with the space between said inclined walls.

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

RUSSELL M. BAKER.

Witnesses:

PIERRE BARNES,
OLOF OHLSON.