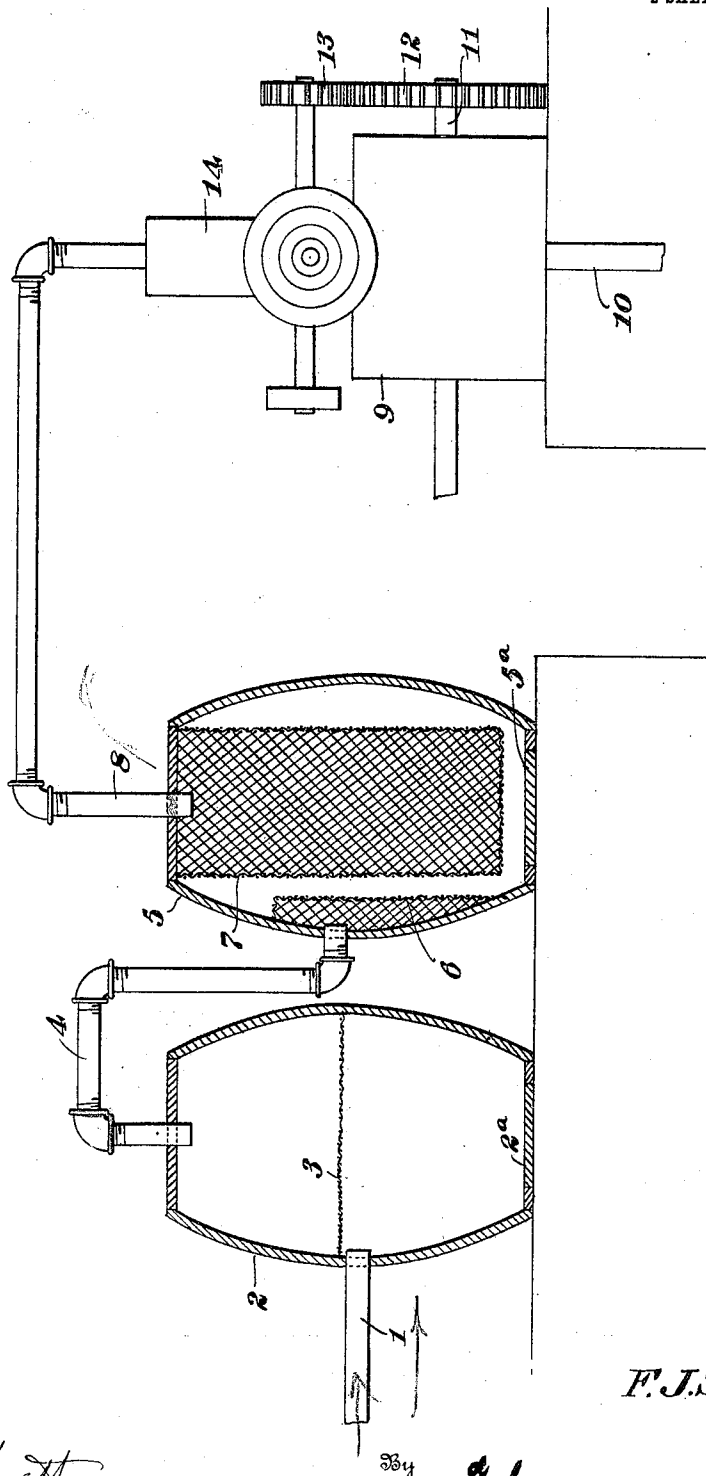


933,926.

Fig. 1.



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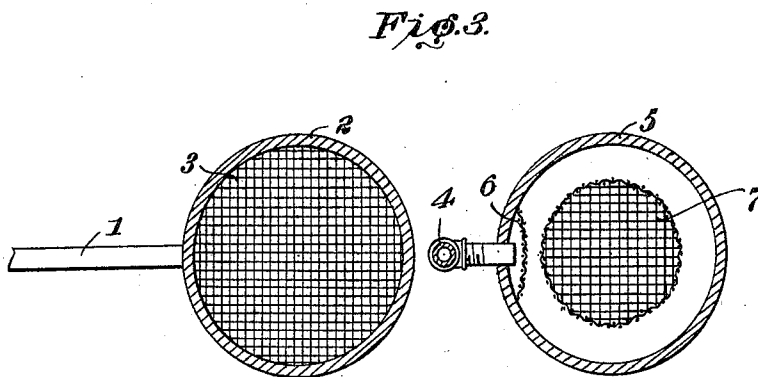
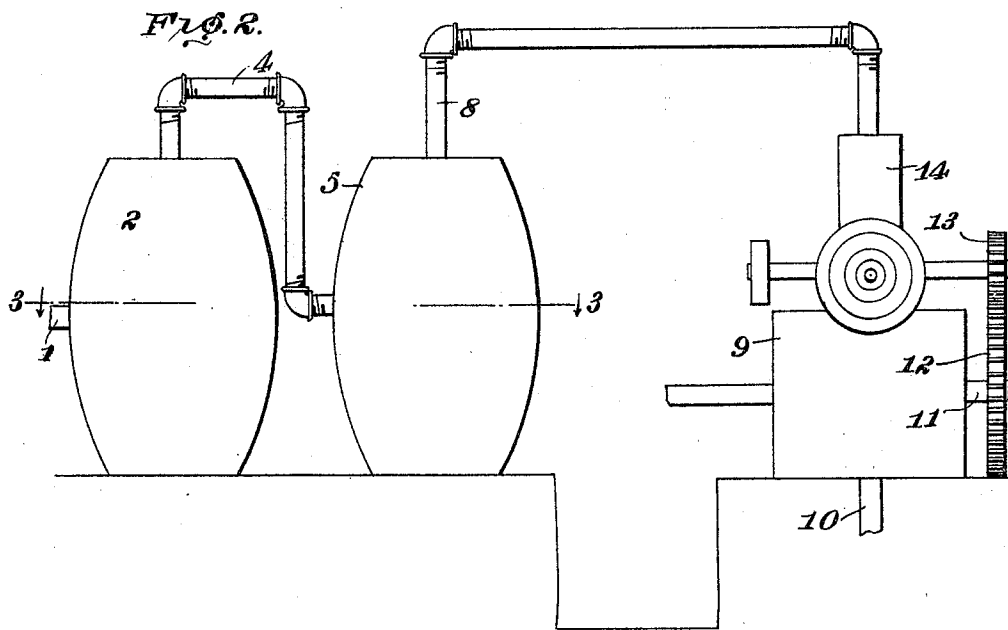
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F. J. SEELEY.
CLEANING APPARATUS.
APPLICATION FILED AUG. 3, 1908.

933,926.

Patented Sept. 14, 1909.
2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

FRED J. SEELEY, OF PONTIAC, MICHIGAN.

CLEANING APPARATUS.

933,926.

Specification of Letters Patent. Patented Sept. 14, 1909.

Application filed August 3, 1908. Serial No. 446,646.

To all whom it may concern:

Be it known that I, FRED J. SEELEY, citizen of the United States, residing at Pontiac, in the county of Oakland and State of Michigan, have invented certain new and useful Improvements in Cleaning Apparatus, of which the following is a specification.

This invention comprehends certain new and useful improvements in cleaning apparatus of that type that operate on the suction or vacuum principle, and the invention has for its object a simple and durable apparatus of this character designed for cleaning carpets, rugs, upholstered furniture or the like in dwellings and other buildings.

With this and other objects in view, the invention consists in certain constructions, combinations and arrangements of the parts that will be hereinafter described and claimed.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a vertical section of a cleaning apparatus constructed in accordance with my invention, Fig. 2 is a side elevation thereof, Fig. 3 is a horizontal section on the line 3—3 of Fig. 2.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings the numeral 1 designates an intake pipe or tube of my improved cleaning apparatus, said tube being provided at one end with any form of nozzle or sweeper (not shown), the other end of the intake pipe 1 is connected to a tank 2 which is in the form of a barrel provided in its bottom with an air tight removable closure 2^a by means of which said dust in the tank may be emptied. The said tank is provided with a screen 3 of cloth or some fabric sufficiently fine to assist in separating the dust particles from the air as it is flowing through the screen. The screen 3 extends entirely across the tank 2 as shown. A pipe 4 is connected at one end to the top of the tank 2 and extends outwardly therefrom and thence downwardly and is connected at its other end to a second tank 5 preferably near the middle thereof. The tank 5 contains two strainers, one of which designated 6, is in the form of a vertically disposed screen 6 circumscribing the opening

which leads into the tank from the pipe 4; and the other of which, designated 7 is composed of wire and cloth and is cylindrical as shown and suspended within the tank, said screen being secured to the top thereof and spaced therefrom on its sides and lower end. The tank 5 is provided with a removable air tight closure 5^a in its bottom underneath and spaced from the lower end of the strainer 7.

A suction pipe 8 is connected at one end of the tank 5 within the circle of the strainer 7 and the other end of said suction pipe is connected to a rotary air pump 9. This air pump 9 is provided with a discharge pipe 10, and the shaft 11 of the pump carries a gear wheel 12 which measures with a pinion 13 on one end of the drive shaft of a motor 14 which may be a gasolene engine or any other suitable source of power.

In the practical operation of my improved house cleaning machine, when the engine is started it is obvious that the operation of the pump 9 will cause a suction throughout the entire system and the air laden with dust particles will be drawn into the intake pipe 1 and first in the tank 2, in which the air will be filtered as it is drawn through the cloth screen 3. The air is further drawn through the connecting pipe 4 into the tank 5 and as it passes through the tank a further filtration is effected from a strainer 6 and finally from the cylindrical strainer 7, which has a relatively large proficient area and serves in connection with the other parts to effectively separate the dust particles from the air. It is to be noted that the dust is separated from the air before it reaches the air pump. When the operation is completed, the tanks may be readily emptied as the barrels are bottom side up.

Having thus described the invention, what is claimed as new is:

A vacuum cleaning apparatus, comprising an intake pipe, a tank into which said pipe opens, a screen mounted in said tank and extending entirely across the same above the point of connection of the pipe with the tank, a second tank having an opening in its side, a pipe leading from the top of the first named tank, and connected to the second named tank at the side opening thereof, a strainer secured in the second tank around the opening therein, a cylindrical strainer secured to the top of the second named tank and suspended therein with its sides and lower end spaced from the walls of the tank,

a suction pipe connected to the top of the second tank within the circle of the upper end of the cylindrical strainer, an air pump connected to said suction pipe and means
5 for operating said air pump, the two tanks being provided in their bottoms with air tight removable closures.

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

FRED J. SEELEY. [L. s.]

Witnesses:

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L. M. SEELEY.