

J. H. BROWN.
 RENOVATOR.
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933,526.

Patented Sept. 7, 1909.

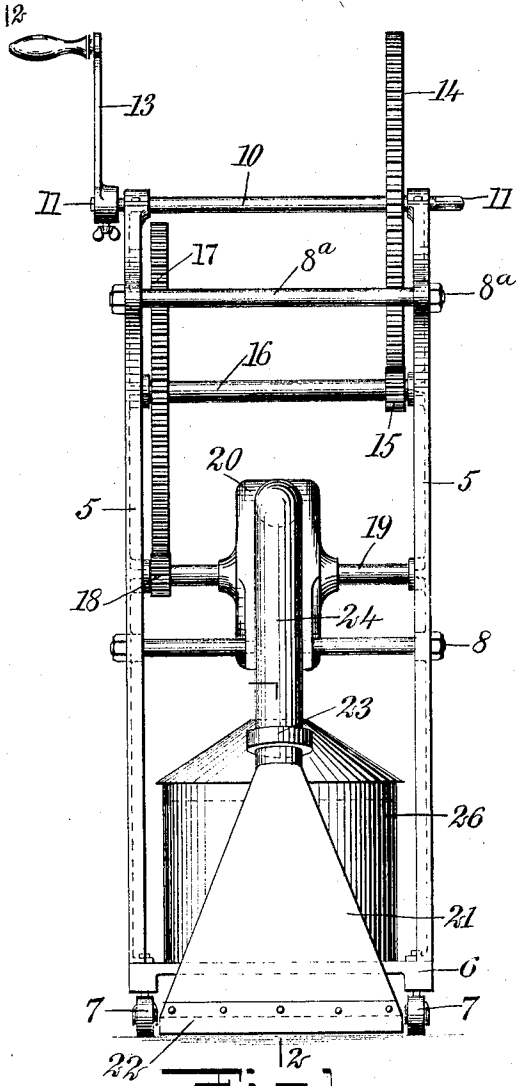


Fig. 1.

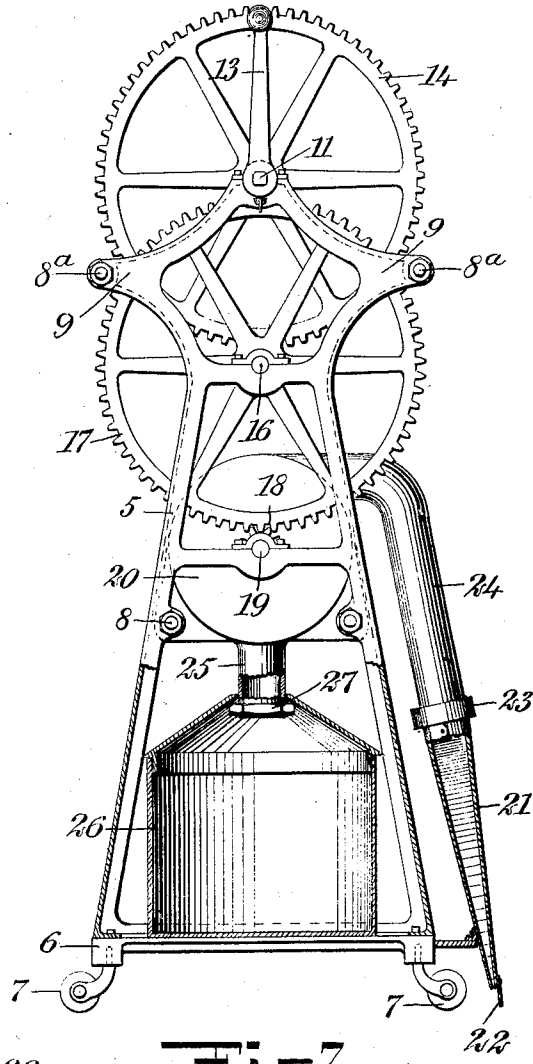


Fig. 2.

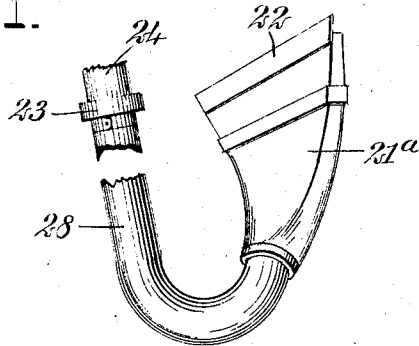


Fig. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

JACOB H. BROWN, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-HALF TO EMMA KRUSI, OF NEW YORK, N. Y.

RENOVATOR.

933,526.

Specification of Letters Patent.

Patented Sept. 7, 1909.

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To all whom it may concern:

Be it known that I, JACOB H. BROWN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Renovator, of which the following is a full, clear, and exact description.

This invention is an improvement in renovators, having in view a manually-operated device for household use in which the dust and dirt are removed by suction.

The preferred embodiment of the invention described in a general way consists of two upright wheel-supported frames rigidly connected together at the bottom by a platform, and at suitable points thereabove; a receptacle seated on the platform; a nozzle which is applied to the part to be cleaned; a rotary pump supported between the frames, having its inlet connected with the nozzle and discharging into the receptacle; and a driving mechanism for the pump, journaled on the frame.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a front elevation of a renovator embodying my invention; Fig. 2 is a side elevation of the same, partly in central vertical section on the line 2—2 of Fig. 1; and Fig. 3 is a perspective view of a nozzle which is substituted for the nozzle shown in Figs. 1 and 2 when parts at an elevation are to be cleaned.

More specifically described, the renovator is constructed of two upright skeleton side frames 5, 5, rigidly connected together at the bottom by a platform 6 and supported on the wheels or casters 7. The frames are further connected together above the platform by cross-bolts 8 and by cross-bolts 8^a arranged at some distance thereabove; the frames having laterally-extending arms 9 for the reception of these bolts 8^a. Journaled in bearings at the top of the frames is a driving shaft 10, having extended ends 11 of angular cross section for the application of an operating handle 13, and also hav-

ing affixed thereto between the frames, at one side, a large gear 14 which is in mesh with a small gear 15 fixed to a shaft 16. The shaft 16 is also journaled in bearings 55 carried by the frames 5, and has a large fixed gear 17 at the opposite side of the machine, in mesh with a small gear 18 secured to a shaft 19 which is journaled in bearings carried by the frame below the shaft 16, and 60 forms the axis of a rotary pump 20. The casing of this pump is extended on its lower side, as best shown in Fig. 2, and through which pass the bolts 8, rigidly connecting it with the frame. 65

At the front of the machine a flaring nozzle 21 is secured, having a narrow intake opening arranged adjacent to the floor and to the forward side of which is secured a flexible guard 22. The nozzle is detachably 70 connected by a clamp 23 to a pipe 24 leading to the inlet of the pump. The discharge or outlet of the pump is through a depending neck 25 into a receptacle 26 seated on the platform 6. The cover of the re- 75 ceptacle is slidable over the neck 25 and is prevented from dropping therefrom, when the receptacle is removed, by a nut or enlargement 27. This construction makes it possible to remove the receptacle, for empty- 80 ing its contents, by sliding the cover upwardly and then withdrawing the body of the receptacle from the platform in a lateral direction.

When it is desired to cleanse parts elevated above the floor, I provide a nozzle 21^a in all respects like the nozzle 21, which, instead of being connected directly with the inlet pipe 24, is joined thereto through the intermediary of a flexible pipe or hose 28, 90 this hose being of suitable length to reach the points desired to renovate.

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

1. In a renovator, the combination of a roller-supported frame designed to be manually wheeled over the floor, a rotary pump carried by the frame, having its outlet discharging over the platform, a nozzle con- 100 nected with the inlet of the pump, having a narrow intake opening and provided with a

flexible guard at one side thereof, and means for driving the pump, journaled on the frame.

2. In a renovator, the combination of a
5 wheel-supported frame having a platform, a rotary pump having a depending discharge neck provided with an enlargement, a nozzle connected with the inlet of the pump, means carried by the frame for driving the pump,
10 and a receptacle seated on the platform,

having a cover slidable over the discharge neck above said enlargement.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JACOB H. BROWN.

Witnesses:

JOHN KRUSI,

JOHN P. DAVIS.