ADJUSTABLE WHEEL MOUNTING FOR TANK
TYPE SUCTION CLEANERS

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This invention relates to an improved tank-type suction cleaner of the kind in which a tank rests upon the floor and the cleaning nozzle is attached to one end of the tank.

Suction cleaners of this type are in common use at the present time as they have various advantages over the ordinary floor type. However, one of the chief disadvantages is that the tank rests upon the floor and when it is necessary to remove the dust collecting bag to empty it, it is necessary to stoop over and either work in this stooped position or lift the tank from the floor. This requires a considerable amount of effort and for that reason many users are not entirely satisfied with the tank-type cleaner.

In the cleaner of this invention I have provided a structure whereby the tank may be raised to an elevated position giving ready access to the front end of the tank from which the dust collecting bag may be removed. Such a structure reduces the labor required in using the cleaner and for this reason has decided advantages over the ordinary types.

The invention will be described in detail as exemplified in the embodiment shown in the accompanying drawings. In the drawings, Fig. 1 is a side elevation of my improved cleaner with the tank shown in elevated position by dotted lines; Fig. 2 is a drawing in elevation of the lower rear end section of the tank; Fig. 3 is a rear elevation of the tank; and Fig. 4 is a view of the bottom rear portion of the tank.

In the improved tank-type suction cleaner, as shown, there is the usual horizontal tank adapted to rest on the floor or other base and comprising a tank, a pair of wheels supporting the tank located on opposite sides of the tank near one end thereof, an axle structure upon which said wheels are mounted, substantially parallel extensions from each end of the axle hingedly attached to the tank near said end, means for turning said tank about said hinge to elevate the tank with the end opposite the wheels extending at an angle to the floor and with each extension thereby assuming a greater angle with respect to the longitudinal axis of the tank, and means for maintaining the tank in said elevated position.

2. A tank-type suction cleaner adapted to rest on the floor or other base and comprising a tank, a pair of wheels supporting the tank located on opposite sides of the tank near the rear end thereof, an axle structure upon which said wheels are mounted, substantially parallel extensions from each end of the axle hinged attached to the tank at points nearer the rear end of the tank than the wheels, means for turning the
tank about said hinge to elevate the front end of the tank and with each extension thereby assuming a greater angle with respect to the longitudinal axis of the tank, and means for maintaining the tank in said elevated position.

3. A tank-type suction cleaner adapted to rest on the floor or other base and comprising a tank, a pair of wheels supporting the tank located on opposite sides of the tank near the rear end thereof, an axle structure upon which said wheels are mounted, substantially parallel extensions from each end of the axle hingedly attached to fixed ears mounted on the tank at points nearer the rear end of the tank than the wheels, a handle on top of the tank for turning it about said hinge to elevate the front end of the tank and increase the angle between each extension and the longitudinal axis of the tank, and means for maintaining the tank in said elevated position.

4. A tank-type suction cleaner adapted to rest on the floor or other base and comprising a tank, a pair of wheels supporting the tank located at opposite sides of the tank near the rear end thereof, an axle structure upon which said wheels are mounted, substantially parallel extensions from each end of the axle hingedly attached to fixed ears mounted on the tank at right angles thereto and nearer the rear end of the tank than the wheels, means for turning the tank about said hinge to elevate the front end and increase the angle between each extension and the longitudinal axis of the tank, said means consisting of a handle on top of the tank and a fixed foot bar on the said parallel extensions for holding the wheels down, and means for maintaining the tank in said elevated position.

5. A tank-type suction cleaner adapted to rest on the floor or other base and comprising a tank, a pair of wheels supporting the tank located at opposite sides of the tank near the rear end thereof, an axle structure upon which said wheels are mounted, substantially horizontal parallel extensions from each end of the axle hingedly attached to fixed ears mounted on the tank at right angles thereto and nearer the rear end of the tank than the wheels, means for turning the tank about said hinge to elevate the front end and increase the angle between each extension and the longitudinal axis of the tank, said means consisting of a handle on top of the tank and a fixed foot bar on the said parallel extensions for holding the wheels down, and springs extending from the foot bar to the tank so constructed and arranged that they hold the wheels against the tank when said tank is in horizontal position but when the tank is in elevated position they hold it in said elevated position by reason of then being below the said hinge.

6. A tank-type cleaner adapted to rest on the floor or other base and comprising a tank structure, a pair of wheels supporting the tank located on opposite sides of the tank near the rear end thereof, an axle structure upon which said wheels are mounted, substantially parallel extensions from each end of the axle hingedly attached to the tank at points nearer the rear end of the tank than the axle structure, means for turning the tank about said hinge to elevate the front end of the tank with the wheels remaining on the floor, and means for maintaining the tank in said elevated position with the tank balanced on the wheels and the rear lower portion of the tank structure.

7. The tank-type cleaner of claim 6 wherein said extensions have substantially the same position relative to the floor when the tank structure is in lowered and in elevated position.

8. A tank-type cleaner adapted to rest on the floor or other base and comprising a tank structure, depending substantially parallel ears fixed to the tank structure near the end thereof and extending from opposite sides of the center of the tank structure toward the floor, substantially parallel extensions hingedly connected to said ears and extending toward the front end of the tank structure, an axle held by the front ends of said extensions with the axle passing under the tank structure, wheels on the ends of said axle for supporting the rear end of said tank structure, means for turning the tank about said extensions to elevate the front end of the tank with the wheels remaining on the floor, and means for maintaining the tank in said elevated position with the tank balanced on the wheels and the rear lower portion of the tank structure.

9. The tank-type cleaner of claim 8 wherein said extensions have substantially the same position relative to the floor when the tank structure is in lowered and in elevated position.

10. The tank-type cleaner of claim 8 wherein said extensions are substantially parallel to the floor when the tank structure is in lowered and in elevated position.

11. The tank-type cleaner of claim 5 wherein the cleaner is balanced on the wheels and the rear lower portion of the tank when the tank is in elevated position.

EDWARD A. FRENCH.

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