Sept. 18, 1923. 1,467,994

C. P. BOHLAND

WASHING BOWL

Filed Nov. 7, 1921

Fig. 1

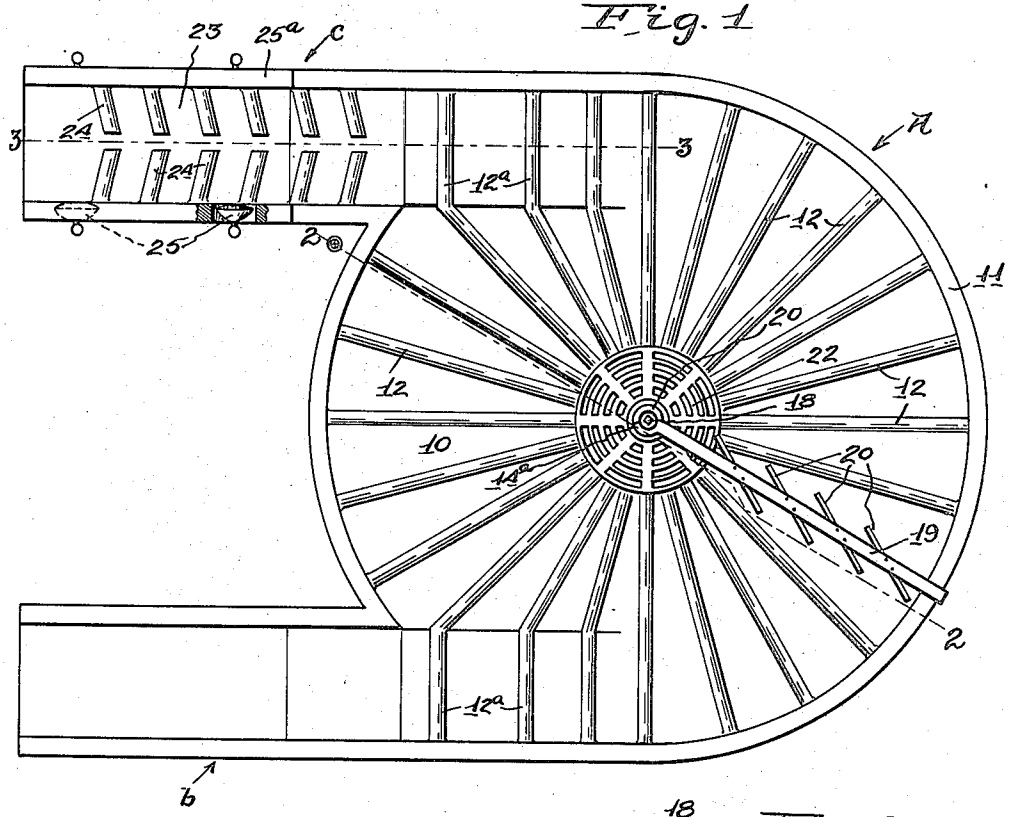


Fig. 2

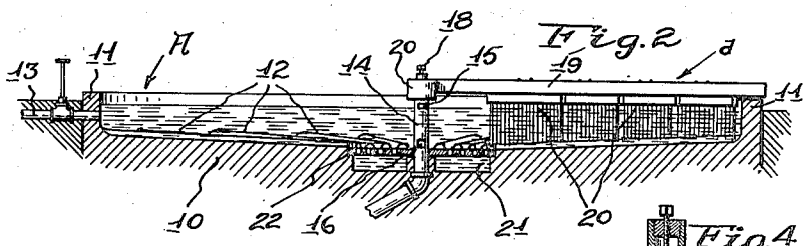


Fig. 4

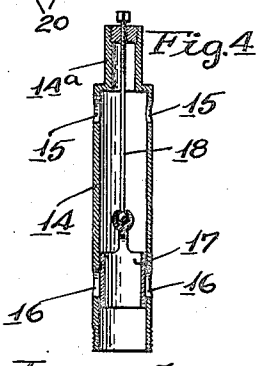
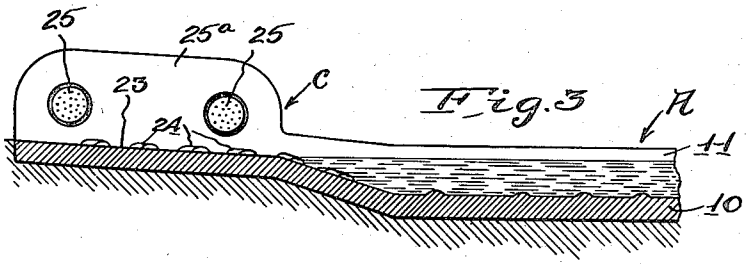


Fig. 3



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UNITED STATES PATENT OFFICE.

CARL P. BOHLAND, OF ST. PAUL, MINNESOTA.

WASHING BOWL.

Application filed November 7, 1921. Serial No. 513,520.

To all whom it may concern:

Be it known that I, CARL P. BOHLAND, a citizen of the United States, residing at St Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Washing Bowl, of which the following is a specification.

My invention relates to improvements in washing bowls for vehicles of the class pointed out in a pending application, filed by myself April 5, 1920, bearing Serial Number 371,215.

In said pending application for patent, I have illustrated and described a shallow receptacle for a washing fluid providing a submerged course for vehicles, dished to aid drivers in the management of their vehicles and to direct accumulated foreign matter toward the center of the receptacle, during the agitation of the fluid by the moving vehicles.

It is the object of my present invention to provide a washing bowl of this nature having ribs on the bottom thereof traversing the course of travel and adapted to promote the cleansing effect through vibration of the vehicles and by increasing the agitation of the washing fluid.

A further object is to supply a washing bowl of this kind having a central settling basin to receive silt and the like, together with a centrally supported brush to sweep the accumulated foreign matter from the bottom of the bowl into said settling basin.

Another object is to supply, in a device of this nature, an egress ramp leading from the washing bowl, said ramp having an emersed portion inclined downwardly into the bowl, said portion being of sufficient length to accommodate a vehicle and providing a drain for water from associated sprinkling devices arranged to cleanse the vehicle.

With the foregoing and other objects in view, which will appear in the following description, the invention resides in the novel combination and arrangement of parts and in the details of construction hereinafter described and claimed.

In the drawings, Fig. 1 is a plan view of a washing bowl embodying my invention; Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1; Fig. 3 is a sectional view, in detail, taken on the line 3—3 of Fig. 1 and Fig. 4 is an enlarged longitudinal sectional view in detail illustrating the central duct.

Referring to the drawings it will be noted that I provide a shallow circular bowl A of concrete or other suitable material including an inwardly and downwardly sloping floor 10 and a retaining wall 11. Entering and leaving ramps *b* and *c* provide courses for vehicles leading into and from the washing bowl A. The floor 10 is formed with radial ribs 12, the ends 12^a of certain ribs being turned at their ends from radial directions to transverse directions with respect to the ramps *b* and *c*. Said ribs make for irregularity in the floor surface and set up sufficient vibration in passing vehicles to aid materially in the cleansing process. The bowl A is supplied with a valve controlled water supply pipe 13 and also with a central, upright duct 14 serving three purposes, viz; as an overflow pipe, a drain pipe and a pivotal support for the inner end of a brush *d* more fully hereinafter described. Said duct 14 has an opening 15 near its upper end through which the washing fluid is permitted to escape when the level thereof has reached the desired height in the bowl A. An opening 16 in said duct at the bottom of the bowl A provides for draining the bowl of its contents. A sleeve valve 17, within the duct 14, actuated through a valve stem 18 serves, in one position, to obstruct said drain opening 16. The brush *d* includes a beam 19 with a head 20 at its inner end designed for removable pivotal attachment to the upper contracted end 14^a of the central duct 14 and also includes a plurality of angularly arranged brushes 20 depending in overlapping relation beneath said beam. A depressed annular settling basin 21 encircling the duct 14 is covered with a removable grate 22. The leaving ramp *c* has an emersed floor portion 23 above the high fluid level within the bowl A. This floor portion is formed with ribs 24 reaching inwardly from the sides of the ramp and inclined slightly downward toward the bowl. The inner ends of these ribs 24 fail to meet, thus providing a central channel in the emersed floor portion 23, said channel leading to the bowl and allowing for the draining of said floor portion. Said ribs 24 serve primarily to aid drivers in arresting and holding vehicles in suitable position upon the floor portion 23. Opposed shower fixtures 25 arranged in openings in

splash walls 25ª of the ramp *c* provide for rinsing a vehicle after the washing process in the bowl A has been completed.

In use, vehicles are driven into the bowl A by way of the entering ramp *b* and are guided around the bowl as many times as is necessary to flush accumulated mud, dust, dirt, etc., from the wheels, running gear and mud guards. The flushing action being completed, a vehicle is driven onto the emersed portion 23 of the leaving ramp *c*, the ribs 24 thereon serving to block the wheels and hold the vehicle in the desired position. Rinsing water from the shower fixtures 25 is sprayed against the vehicle. The drain from the showers being directed back into the bowl, compensates for evaporation therefrom and tends to prevent stagnation of the water in the bowl. Preparatory to draining the bowl A and at other times, if desired, the brush *d* may be applied to the central duct 14 and swung around the bowl to sweep the bottom thereof and carry the accumulated foreign matter to the settling basin 21. The brush *d* is, of course, removed from the bowl after the accumulated foreign matter has been removed.

Changes in the specific form of my invention, as herein disclosed, may be made within the scope of what is claimed without departing from the spirit of my invention.

Having described my invention, what I claim as new and desire to protect by Letters Patent is:

1. A device of the class described, comprising a shallow receptable for a washing fluid having means of ingress and egress for vehicles, the bottom of the receptacle providing a submerged course of travel for the vehicles, the surface of said bottom being irregular to promote agitation in the washing fluid.

2. A device of the class described, comprising a shallow receptacle for a washing fluid, means of ingress and egress to and from said receptacle, the bottom of the receptacle providing an endless, submerged, dished run-way for vehicles propelled therein, said bottom being ribbed transversely of the course of travel to promote agitation in the washing fluid.

3. In a device of the class described, comprising a shallow receptacle for a washing fluid, the floor thereof providing an endless submerged course for vehicles, said floor being ribbed to promote agitation and sloping downwardly and inwardly to a central area, said area being depressed and forming a settling basin, the inclination of said floor being adapted to aid drivers in the management of their vehicles and also serving to direct accumulated foreign matter toward the settling basin, and a centrally pivoted brush arranged to sweep the foreign matter into said settling basin.

4. A device of the class described, comprising a shallow bowl for a washing fluid, furnishing an endless submerged course for vehicles, a central drain duct leading from the receptacle and a brush removably pivoted on said drain duct for freeing the floor of accumulated foreign matter and carrying the same to the center of the bowl.

5. A device of the class described, comprising a shallow bowl for a washing fluid, furnishing an endless submerged course for vehicles, a central settling basin in the floor of said bowl, a central pivot and a brush removably pivoted thereon for sweeping accumulated foreign matter from the floor and into said settling basin.

6. A device of the class described, comprising a shallow receptacle for a washing fluid, said receptacle providing a submerged course for vehicles, a ramp leading from the receptacle and having an emersed floor portion sloping downwardly into the bowl, and a shower fixture arranged to direct rinsing water on a vehicle in position upon said emersed floor portion, the water from said shower fixture being drained by said floor portion into the receptacle to replenish the supply of washing fluid therein and to aid in preventing stagnation thereof.

7. A device of the class described, comprising a shallow receptacle for a washing fluid, said receptacle providing a submerged course for vehicles, a ramp leading from the receptacle and having an emersed floor portion sloping downwardly into the bowl self draining, wheel blocking ribs on said floor, and shower fixtures arranged to direct rinsing water on a vehicle in position upon said emersed floor portion, the water from said shower fixtures being drained by said floor into the receptacle to replenish the supply of washing fluid therein and to aid in preventing stagnation thereof.

In testimony whereof, I have signed my name to this specification.

CARL P. BOHLAND.