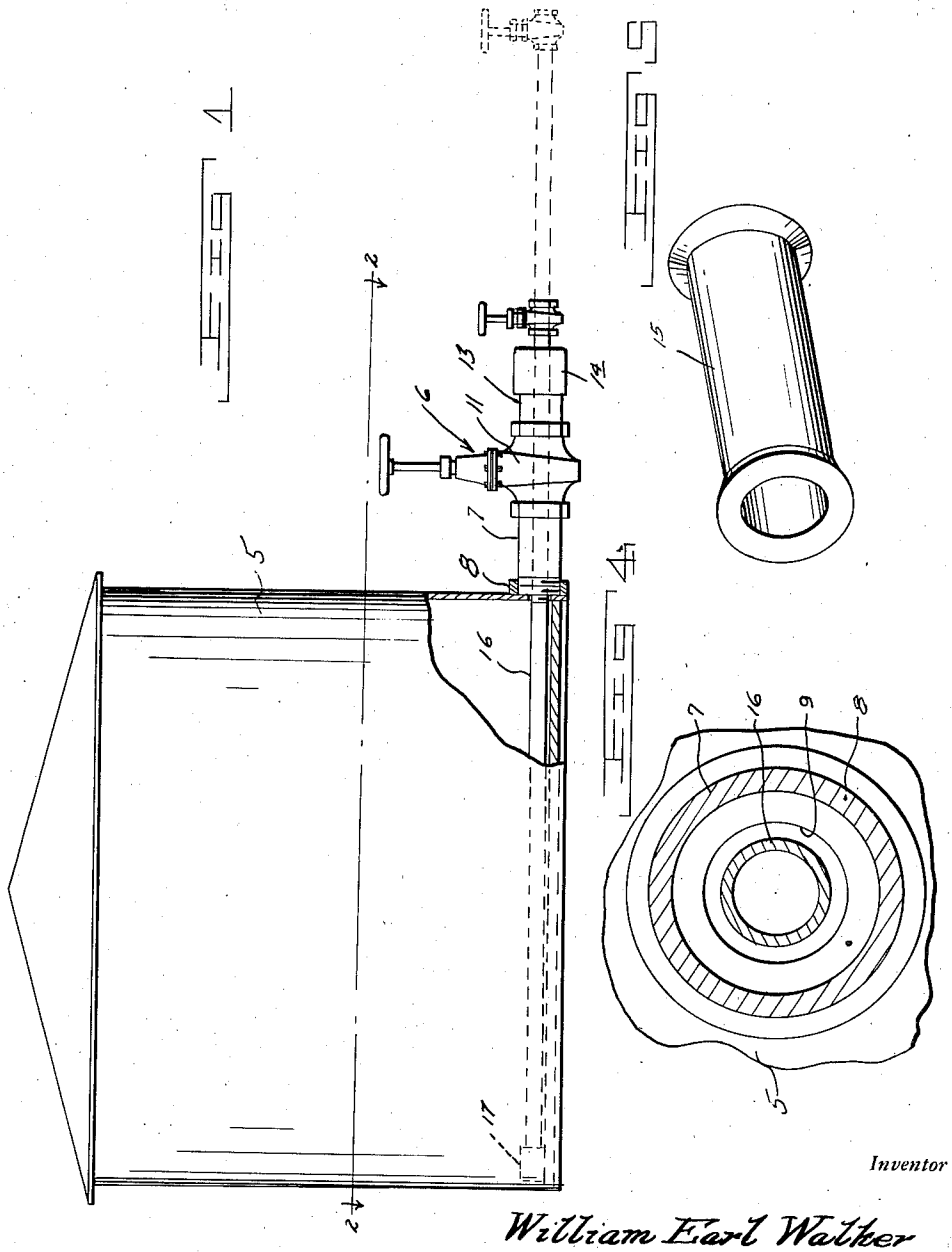
July 11, 1944. W. E. WALKER 2,353,530

TANK CLEANING DEVICE

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FIG 2

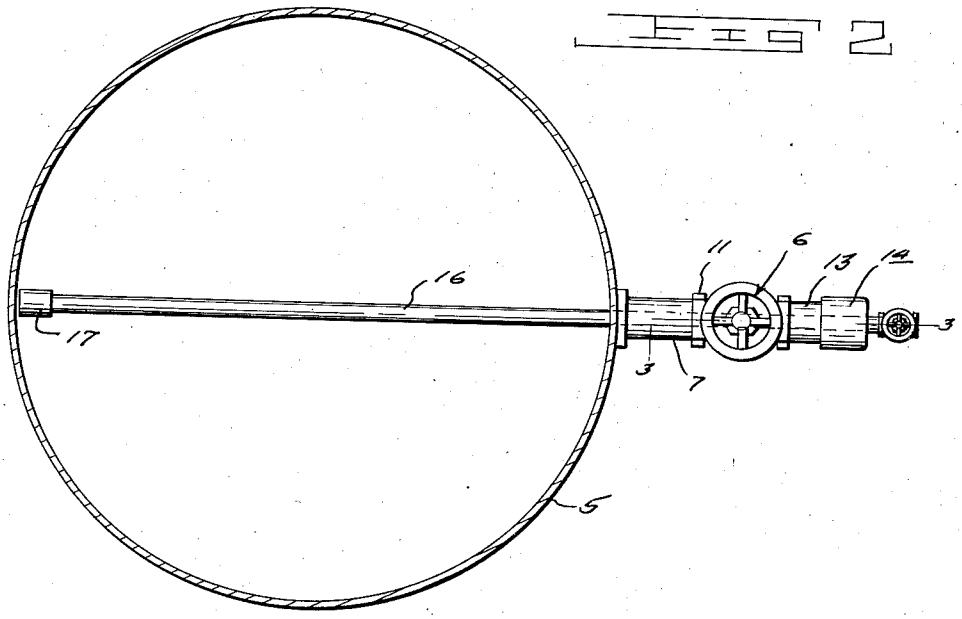
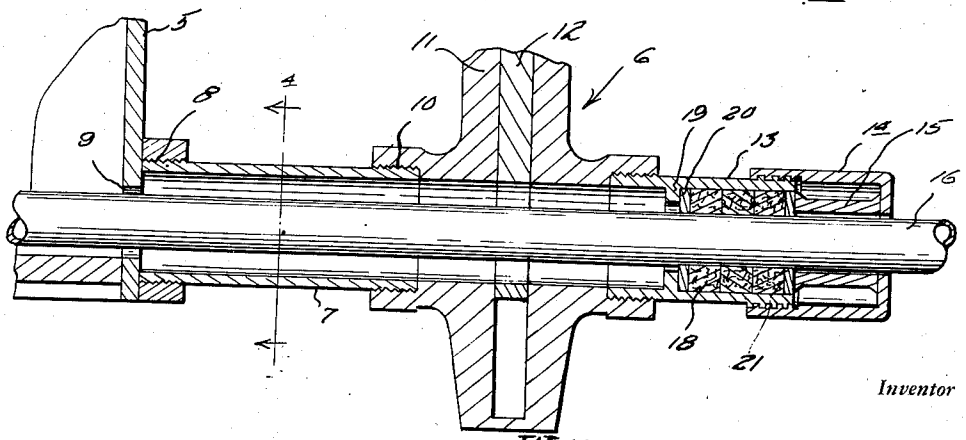


FIG 3



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UNITED STATES PATENT OFFICE

2,353,530

TANK CLEANING DEVICE

William Earl Walker, Freer, Tex., assignor of one-half to John B. Rackley, Freer, Tex.

Application June 5, 1942, Serial No. 445,948

1 Claim. (Cl. 210—206)

This invention relates to new and useful improvements in means for removing tank sediment and tank scale from oil tanks and the like.

A principal object of the present invention is to provide means for removing foreign sediment from oil contained tanks in an efficient and oil wasteless manner.

Other objects and advantages of the invention will become apparent to the reader of the following description.

In the drawings:

Figure 1 represents a side elevational view of the present invention attached to a tank, the tank being shown broken away in parts.

Figure 2 is a section on the line 2—2 of Figure 1.

Figure 3 is a sectional view taken substantially on the line 3—3 of Figure 2.

Figure 4 is a section on the line 4—4 of Figure 3.

Figure 5 is a perspective view of the follower spool.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 denotes an oil tank, while numeral 6 generally refers to the present invention.

In carrying out the present invention, a barrel 7 is removably secured as at 8 to the lower portion of the tank 5 at a point about an opening 9 formed in the lower portion of the tank.

The outer end of the barrel 7 is threadedly engaged as at 10 with the body 11 of a valve structure, preferably including a valve gate 12. The other side of the valve is connected to one end of a packing gland 13 which has a threaded end over which a rotatable cap 14 fits. The cap is threadedly engaged with the box 13 and has a spool-like follower 15 therein which circumscribes an induction pipe 16, which pipe extends longitudinally through the packing box 13, valve body 11, barrel 7 and into the tank 5 where it is provided with a pick up head 17.

Suitable packing material 18 is provided in the box 13, the box 13 having an internal flange 19 against which a stop washer 20 for the packing material 18 abuts. A slide washer 21 is provided against the other end of the packing material and against this bears the follower 15.

It can be seen, that when it is desired to clean the sediment from the tank 5, the valve gate 12 is open, and the head 17 pushed from the right side of the valve element 12 in Figure 3, through the opening 9 and into the tank. Should any leakage occur, the same can be remedied by tightening the cap 14, which, of course, will push the follower 15 against the packing material 18 and compress the same against the eduction tube 16.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

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

A clean-out device for a liquid containing tank having a bottom side outlet, said device comprising a tube adapted to be fixed at one end to said tank to extend from said outlet, a gate valve on the other end of said tube having a gate movable into tube opening and closing positions and provided with a tube opening aperture aligned with the tube when said gate is in tube opening position, a removable packing gland on said valve aligned with said tube, and a clean-out pipe extended through said gland and aperture and adapted to be extended into said tank through said outlet, said pipe being slidable in said gland to retract the same out of said aperture and thereby permit movement of said gate to tube closing position.

WILLIAM EARL WALKER.