

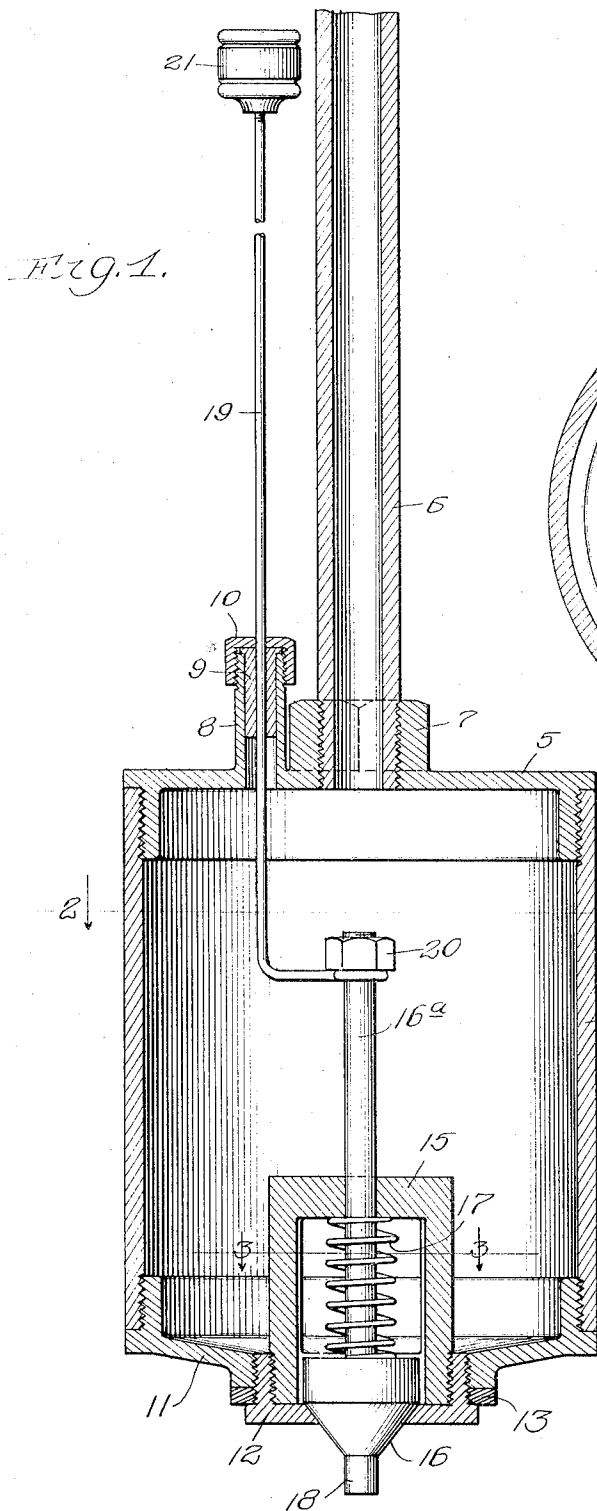
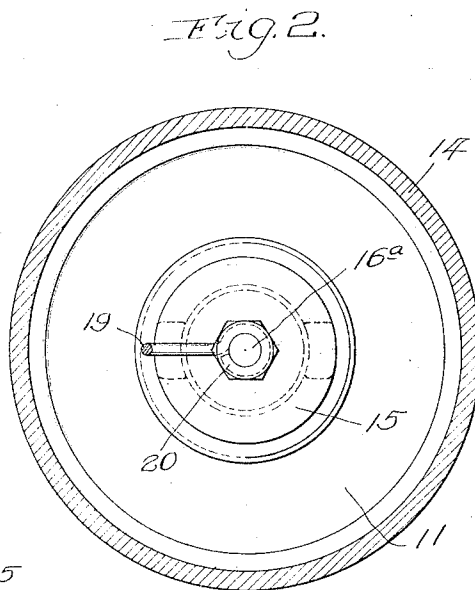
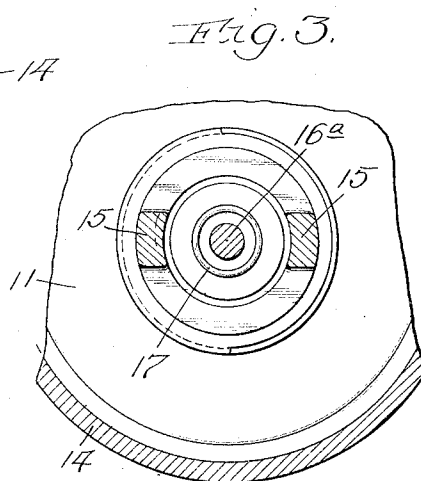
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L. L. TULEY

SAMPLING DEVICE

Filed May 10, 1924



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UNITED STATES PATENT OFFICE.

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SAMPLING DEVICE.

Application filed May 10, 1924. Serial No. 712,336.

To all whom it may concern:

Be it known that I, LEMUEL L. TULEY, a citizen of the United States, residing at Wood River, in the county of Madison and State of Illinois, have invented a new and useful Improvement in Sampling Devices, of which the following is a specification.

My invention relates to an improvement in sampling devices, of which the following is a specification, reference being had to the accompanying drawing, in which—

Figure 1 is a broken view of my improved device, in longitudinal vertical section;

Figure 2 is a section on line 2—2, Fig. 1, and

Figure 3 is a broken section on line 3—3, Fig. 1.

The purpose for which I have more immediately designed my improved device is to provide it of simple and durable construction involving an assembly of parts readily separable for cleansing and adapting it for conveniently sampling the deeper contents of petroleum (especially gasoline and kerosene) holding tanks, such as tank-cars and storage-tanks, to ascertain the amounts of water or other foreign matter in such contents.

A receptacle of the preferred cylindrical shape is represented at 4. The upper end of the receptacle is closed by a cap 5 screwing into its upper end and having a handle-affording vent-pipe 6, of sufficient length, extending centrally from it, being shown as screwing into a threaded opening in the cap and fastened by a nut 7; and the cap 5 is also formed with an eccentric nipple-like extension 8 containing a flanged packing-gland 9 in its outer end, secured in place by a perforated screw cap 10. The lower end of the receptacle has a cap 11 screwed into it, this cap containing a central opening having an internally threaded flanged nipple 12 screwed into it against a gasket 13, and providing a valve-seat 14; and the cap 11 screws about the lower ends of the legs of a yoke 15 extending vertically into the receptacle, and through the head of which a valve-stem 16 works and carries on its lower end a tapering valve 16 resiliently held against the seat 14 by a spring 17 about the stem and confined by the yoke-head against the valve, the latter having an abutment teat 18 projecting from its tapered extremity. A valve-raising rod 19,

having its inner-end portion bent at a right-angle and confined, as by a nut 20, about the valve-stem, passes through the packed guide-nipple 8 and terminates at its outer end in a handle-forming knob 21.

To use the device, the receptacle is introduced by the handle 6 into the tank to be sampled, as through its manhole, until the teat 18 strikes the tank-bottom and the valve is opened by the impact, being held off its seat by the weight of the device and enabling the receptacle to fill with a sample of the contents taken from the lowest depth thereof, whereupon the device, with the valve closed by the recoil-force of the spring 17, is withdrawn and the sample is discharged, by manipulating the handle 21 to unseat the valve, into a suitable receptacle for examination to determine from the showing of the sample, the condition of the tank-contents as to foreign matter therein.

I realize that considerable variation is possible in the details of construction herein shown and described, and I do not intend, by illustrating or describing a single specific or preferred embodiment of my improvement, to be limited thereto, it being my intention by the appended claim to claim protection for all the novelty there may be in my invention as fully as the state of the art will permit.

I claim:

A sampling device of the character described, comprising a receptacle formed of an open-ended cylinder having caps screwed into its opposite ends, one cap having a threaded nipple screwed centrally therein about the legs of a yoke extending into the cylinder, a valve-seat in said nipple, a valve at said seat having an abutment-teat projecting from its outer end beyond the receptacle and a stem extending from its inner end through said yoke and having a valve-seating spring confined about it against the valve, the other cap having formed integrally therewith a nipple-like extension provided with packing, a handle-forming vent-pipe extending from said last-named cap, and a rod working through said extension with its inner end connected to the valve-stem, and carrying a handle on its outer end.

LEMUEL L. TULEY.