April 15, 1952 A. NEUMANN 2,593,172

OIL GAUGE FOR OIL DRUMS

Filed Feb. 21, 1949

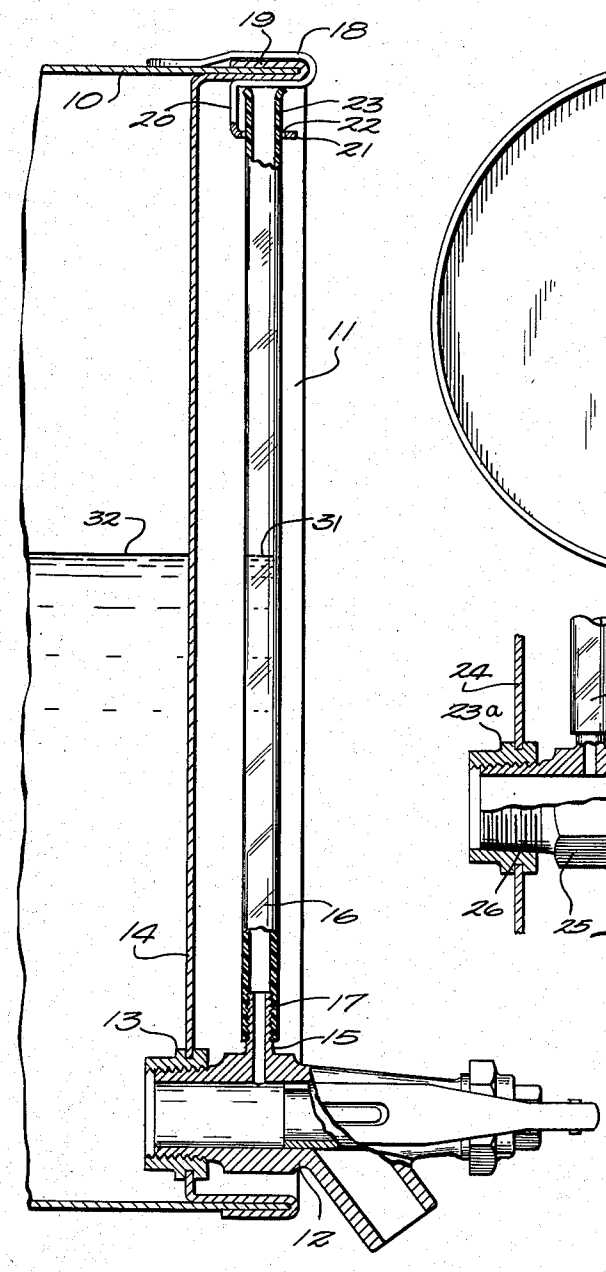


Fig. 1

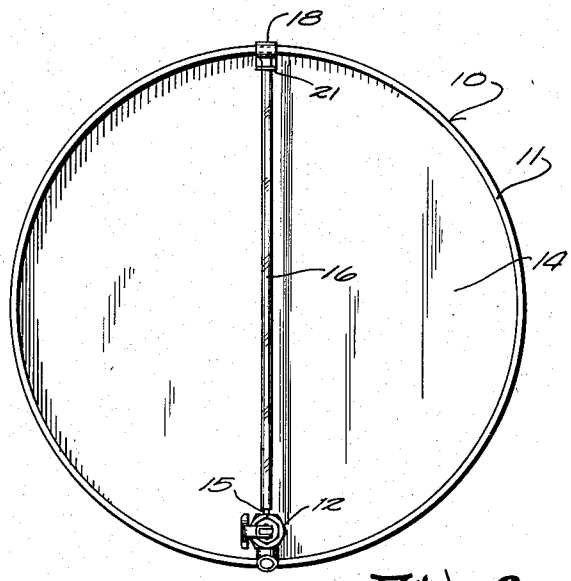


Fig. 2

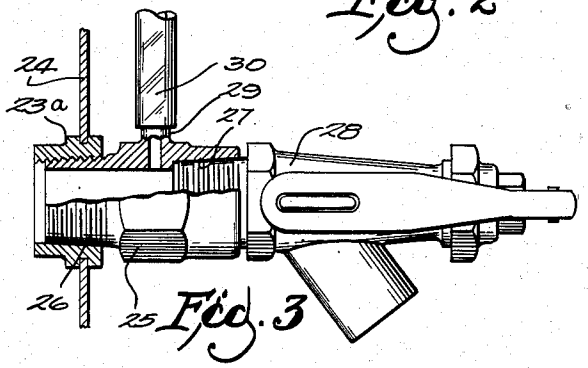


Fig. 3

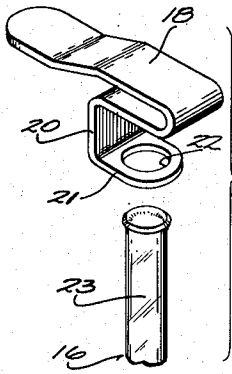


Fig. 4

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Patented Apr. 15, 1952

2,593,172

UNITED STATES PATENT OFFICE

2,593,172

OIL GAUGE FOR OIL DRUMS

Albert Neumann, Milwaukee, Wis.

Application February 21, 1949, Serial No. 77,580

1 Claim. (Cl. 73—323)

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This invention relates to improvements in oil gauges for oil drums, and more particularly to a novel oil gauge of the transparent tubular type.

An object of the invention is to provide a device of the type which includes a transparent plastic tube which may be conveniently inserted and securely held within the end rim of a conventional oil drum and which will indicate the exact level of oil held within said drum.

Another object of the invention is to provide a device of the type which will include a semi-flexible plastic transparent tubing and means for securely retaining the same exteriorly of an oil drum within an end rim thereof.

Other and further objects of the invention will appear as the description proceeds, reference being had to the accompanying drawing, in which:

Fig. 1 is a side view partly in section and partly in elevation showing an oil gauge embodying the invention in position on an oil drum.

Fig. 2 is a frontal view of the oil drum with said gauge in place.

Fig. 3 is a side view partly in section and partly in elevation of a modified form of the invention.

Fig. 4 is an exploded view of a fragmentary portion of the upper end of the tubing and the clamps for affixing the same to the rim of an oil drum.

Referring more particularly to the drawing, the numeral 10 refers to a conventional oil drum having the longitudinally extended end rim 11 and the conventional spigot 12 inserted in a plug 13 in a front wall 14 of said drum. In the preferred form of the invention, the spigot 12 has an integral vertically upstanding nipple 15 carrying an external thread. A transparent plastic semi-flexible tube member 16 is internally threaded at its lower end at 17 thereof and is threadingly engaged with the nipple 15. A clamp member 18 is formed of metal sufficiently strong to retain it against anything less than forcible removal from the bead at 19 of the rim 11. A bracket portion 20 is subjoined and integral with the clamp 18 and has a horizontal portion 21 apertured centrally at 22 to receive and retain the upper end 23 of the tubing 16.

In a modified form of the invention, a plug 23a has an internal thread and is disposed in the front wall 24 of an oil drum. The plug 23a

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threadingly receives a union 25 which is exteriorly threaded at 26 and interiorly threaded at 27 to receive a spigot 28 of conventional type. The union 25 carries an exteriorly threaded nipple 29 which is threadingly engaged with the interior of a flexible plastic tube 30 at the lower end thereof.

In use, the lower end 17 of tube 16 is first threaded over the nipple 15. The upper end 23 of said tube 16 is then inserted within the aperture 22 of the bracket 20. The clamp 18 is then engaged over the bead 19 of the rim 11 and forced on tightly. The semi-flexible character of the tubing 16 permits of this operation. After the assembly is in place, a tank 10 may be filled with oil or other liquid. As the contents of the tank 10 are consumed, the level of the liquid in the tube 16, as at 31 of Fig. 1, will indicate the level, as at 32, of the contents of the drum.

It will be understood that the device is capable of many modifications in structure and design, without departing from the spirit of the invention, within the scope of the appended claim.

Having thus described the invention, what is claimed and desired to be secured by Letters Patent of the United States, is:

A liquid level gauge for an oil drum including a transparent semi-flexible plastic tube having an internal thread at the lower end thereof, a threaded spigot having an upwardly directed nipple threadingly engaged in the lower end of said tube, an S-shaped spring clip detachably receiving the end rim of the oil drum between its upper and central loop, the lower loop of said clip being provided with an aperture receiving and retaining the upper end of said tube spaced inwardly of said rim edge.

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