

Sept. 25, 1956

A. C. JOHNSON
ATTACHMENTS FOR DIP-STICKS
Filed June 22, 1955

2,764,294

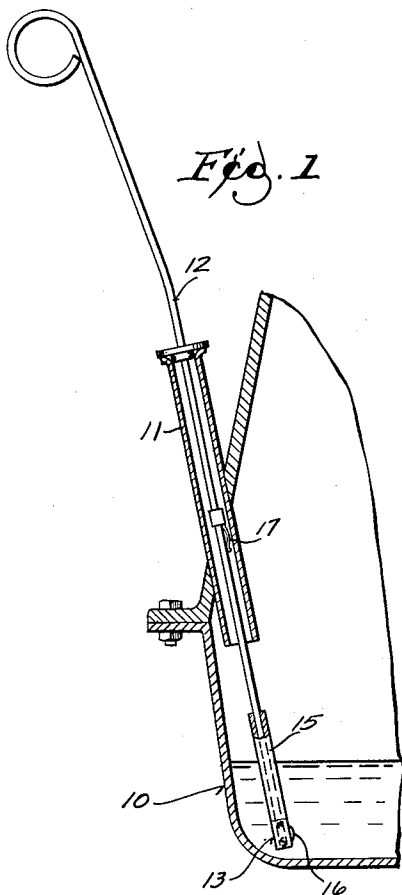
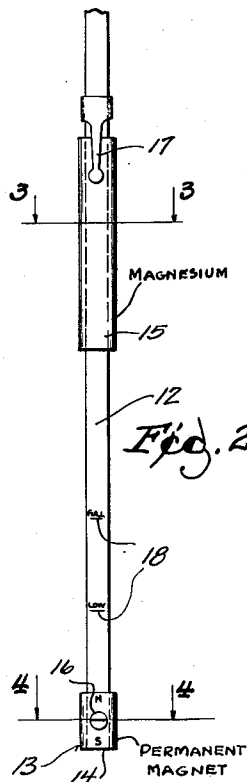
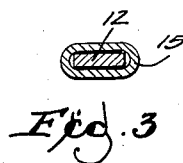
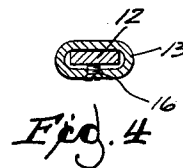
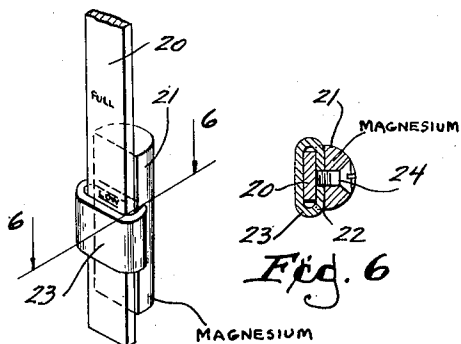
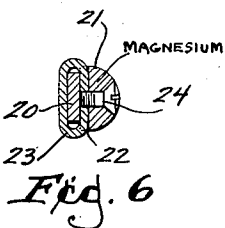
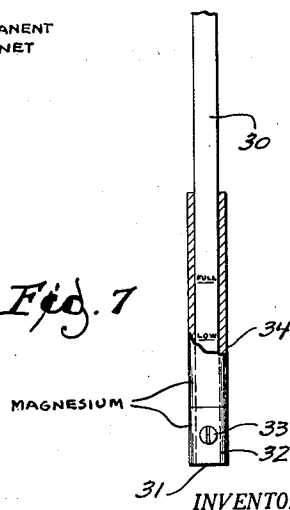


Fig. 7



INVENTOR.
ASHTON C. JOHNSON
BY
Gerald P. Welch
ATTORNEY

1

2,764,294

ATTACHMENTS FOR DIP-STICKS

Ashton C. Johnson, Milwaukee, Wis.

Application June 22, 1955, Serial No. 517,280

2 Claims. (Cl. 210—1.5)

This invention relates to improvements in attachments for crank-case dip-sticks, and more particularly to a novel attachment including magnesium or magnet elements, or both.

An object of the invention is to provide a device which may easily be attached to a dipstick to eliminate acid action in the oil of the crankcase.

Another object of the invention is to provide an attachment for dip-stick which will magnetically attract and retain free metallic and abrasive particles found in crankcase oil content.

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 view partly in section and partly in elevation of an attachment embodying the invention in place on a dip-stick in a vehicle crankcase.

Fig. 2 is a detail view of the dip-stick with the magnesium element withdrawn to facilitate reading the indicia on the dip-stick.

Fig. 3 is a view taken on line 3—3 of Fig. 2.

Fig. 4 is a view taken on line 4—4 of Fig. 2.

Fig. 5 is a view in perspective of one form of the invention.

Fig. 6 is a view taken on line 6—6 of Fig. 5.

Fig. 7 is a view partly in section and partly in elevation of another modification of the invention.

Referring more particularly to the drawings, the numeral 10 refers to a conventional gasoline vehicle crankcase, having the tubular retainer 11 for the dip-stick 12.

In the form of the invention illustrated in Figs. 1 and 2, a flat collar 13 is held at the lower end 14 of the dip-stick 12 and serves to limit the downward movement of the flat sleeve 15.

The flat collar 13 comprises a permanent magnet and is fixed on the dip-stick 12 by threaded or other suitable means 16.

2

The flat sleeve 15 is formed of magnesium in its entirety and will normally rest against the collar 13. When the dip-stick 12 is withdrawn for reading the oil level in the crankcase 10, the sleeve 15 is withdrawn upwardly and engaged with the clip 17 while the oil level is read with reference to the indicia 18.

In Fig. 5 a modified form of the invention is shown, in which the dip-stick 20 is provided with a half-round element 21 of magnesium having a recess at 22 thereof to accommodate a flat collar 23 secured by threaded or other suitable means 24.

In Fig. 7 the dip-stick 30 is provided at its lower end 31 with a flat collar 32 secured by threaded or other means 33, and a flat sleeve 34 freely held on said dip-stick 30. In this form of the invention, both the collar 32 and the sleeve 34 are constituted of magnesium.

In use, the magnesium elements eliminate acid etching of engine parts by acid in the crankcase oil, and the magnet portions attract and retain abrasive metal particles which may be floating free in the crankcase oil.

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 claims.

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

1. An attachment for crankcase dip-sticks including a permanent magnet in form of a collar fixed to the lower end of said dip-stick, an elongated sleeve of magnesium slidable on the dip-stick above the collar, a second collar spaced upwardly on said dip-stick, and a clip on the latter collar for retaining the elongated sleeve in a raised portion.
2. An attachment for crankcase dip-sticks comprising a half-round length of magnesium having a transverse recess on the flat side thereof, a flat collar nested in said recess adapted to engage said dip-stick, and threaded means on the magnesium element passing through said collar to fix said parts on the lower end of the dip-stick.

References Cited in the file of this patent

UNITED STATES PATENTS

1,752,050	Young	Mar. 25, 1930
2,660,058	Vogt	Nov. 24, 1953

FOREIGN PATENTS

303,076	Great Britain	Dec. 27, 1928
---------	---------------	---------------

OTHER REFERENCES

"Motor Trend" magazine, November 1953, page 7 (published by Trend, Inc., Los Angeles, Calif.).