

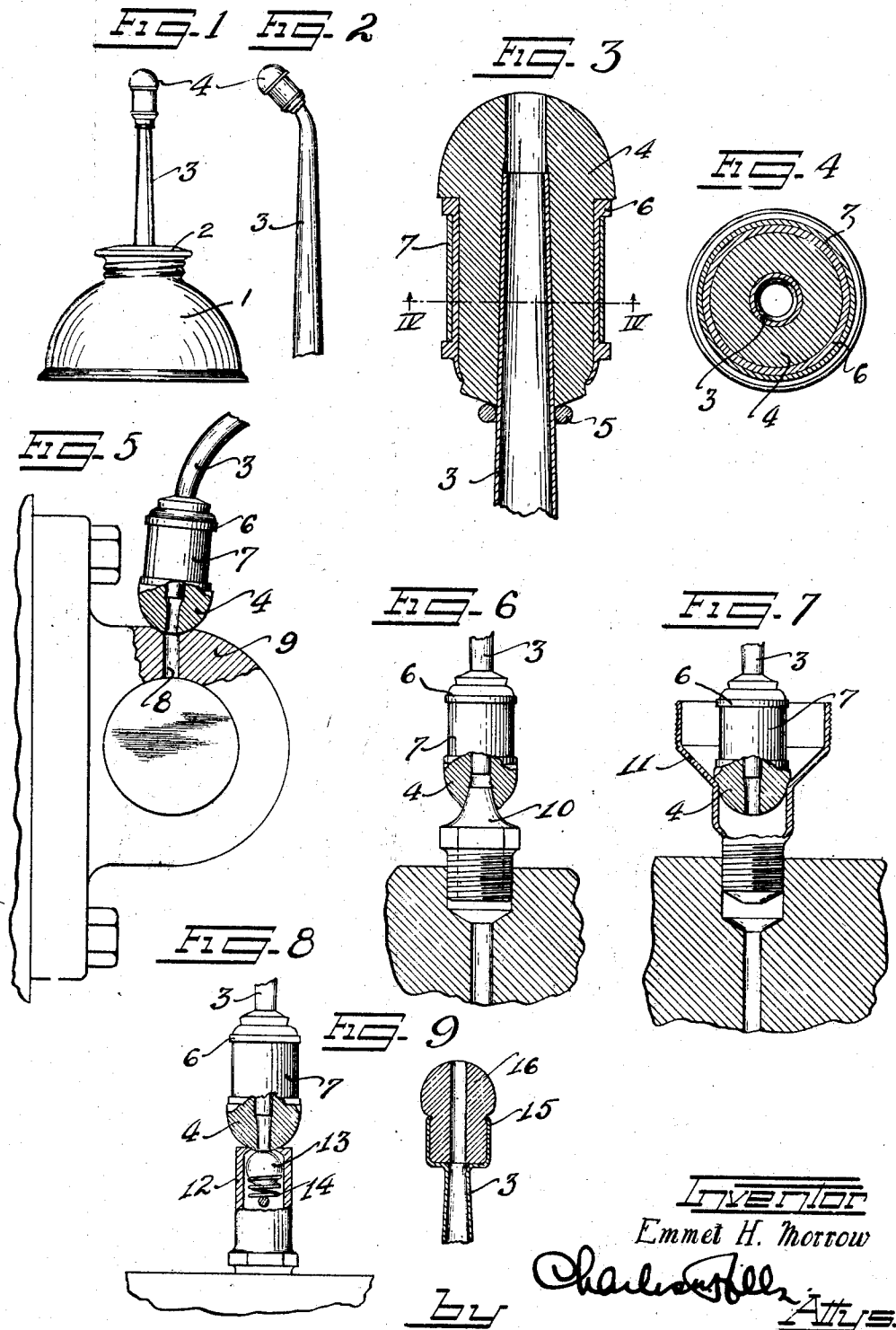
Nov. 25, 1930.

E. H. MORROW

1,782,579

ATTACHMENT FOR OIL CANS

Filed May 3, 1928



INVENTOR

Emmet H. Morrow

Charles E. Miller

Attys.

UNITED STATES PATENT OFFICE

EMMET H. MORROW, OF CHICAGO, ILLINOIS, ASSIGNOR TO AUTOMATIC OILING SEAL CORPORATION, A CORPORATION OF ILLINOIS

ATTACHMENT FOR OIL CANS

Application filed May 3, 1928. Serial No. 274,700.

This invention relates to attachments for oil cans designed for the purpose of aiding the forcing of oil into oil cups, oil holes and lubricating orifices generally.

5 With the ordinary oil can the oil, as it is forced out by pressing on the bottom of the can, enters the lubricating orifice by gravity and cannot be forced down under pressure to the bearing surfaces owing to lack of
10 pressure-tight contact between the can spout and the lubricating orifice.

Screw nipples have been employed to make fluid tight connection between the lubricant container and the lubricating orifices so that
15 the lubricant may be injected into such orifices under pressure. This method, however, limits the use of such lubricant containers to lubricating orifices which have been specially constructed to receive such screw nipples.

20 The object of the present invention is to provide means for so connecting the spout of an ordinary oil can to substantially any lubricating orifice that oil may be forced into the latter under pressure.

25 Other and further important objects of this invention will be apparent from the disclosures in the accompanying drawings and the following specification.

The invention (in a preferred form) is
30 illustrated on the drawings and hereinafter more fully described.

On the drawings:

Figure 1 is a side view of an oil can fitted with my improved attachment.

35 Figure 2 is a side view of an oil can spout having a bent tip with the attachment in position thereon.

Figure 3 is a central longitudinal section through the attachment in position on an oil
40 can spout.

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

Figure 5 is an end view of a bearing, partly
45 in section, showing the attachment in operative relation with an oil orifice in the same.

Figure 6 is a side elevation, partly in section, of a lubricating nipple and the attachment connected thereto.

50 Figure 7 is a side elevation, partly in sec-

tion, of a grease-cup with the attachment in operative position therein.

Figure 8 is a side elevation, partly in section, of an oil cup with ball valve and the attachment in operative relation thereto. 55

Figure 9 is a central longitudinal section through a modified form of construction both of the attachment and also of the spout tip.

As shown on the drawings:

The invention is illustrated in connection
60 with an oil can of usual construction comprising a hemi-spherical body 1 with a flat resilient bottom adapted to be forced inwards by pressure of the thumb to create pressure on the oil within the can to expel a portion of the
65 same. The body 1 is provided with the usual screw cap 2 from the center of which the spout 3 extends upwardly.

The attachment which forms the subject matter of this invention comprises a sleeve
70 4 of resilient material, preferably rubber of such composition that it will not be readily acted upon by oil. The sleeve has a central bore for the reception of the spout end, as shown more particularly in Figure 3. The
75 spout does not extend clear through the sleeve for reasons which will be apparent when the operation of the device is explained in detail. If desired, a stop ring 5 may be soldered or
80 otherwise secured to the spout to limit the distance the spout tip may be inserted into the sleeve.

Preferably, a metal retaining sleeve 6 is arranged around the rubber sleeve to prevent undue expansion or possible cracking of the
85 latter. Conveniently an annular shoulder is formed adjacent each end of the metal sleeve 6 to hold a celluloid or other band such as metal 7 in position thereon. This band may
90 conveniently have the name of the manufacturer, the trade-mark of the latter, or any other desired descriptive or advertising matter printed thereon.

The end of the rubber sleeve, being resilient, makes tight contact with lubricating
95 orifices of almost any shape or construction. As shown in Figure 5, the attachment may have end contact with the slightly cupped end of an oil hole 8 in a bearing 9 or the like.

In Figure 6, a lubricating nipple 10 is 100

shown, which can be forced into the end of the attachment.

In Figure 7, a grease cup 11 is illustrated with which the attachment makes peripheral contact.

5 In Figure 8 is shown an oil-cup 12 provided with a ball check-valve 13 normally held closed by a spring 14. The end of the attachment contacts with the ball 13 and presses it
10 away from its seat and at the same time seals the orifice so that the oil in the can may be discharged under pressure into the cup 12.

Whatever the method of engagement or contact may be when the bottom of the oil can is depressed, oil is forced into the lubricating
15 orifice. The can and its attachment is then raised or tilted to break the contact and the pressure on the bottom of the can released. The bottom springing back produces suction in the can, and as contact has been broken, air
20 is drawn into the can. Contact is then restored between the attachment and the lubricating orifice. When the bottom of the can is again depressed, a further quantity of oil is forced into the lubricating orifice and the
25 operation is repeated as often as desired.

A modified form of construction is shown in Figure 9. In this case, the end of the oil can spout is formed with a cup 15 into which
30 one end of the attachment 16 may be slipped.

I am aware that many changes may be made, and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting
35 the patent granted hereon, otherwise than necessitated by the prior art.

I claim as my invention:

1. An oil can attachment comprising a resilient sleeve having a hemispherical outer
40 end, a metallic band therearound to prevent spreading of said attachment, said sleeve being adapted to engage the spout of an oil can with the hemispherical end projecting beyond the tip of said spout.
45

2. An oil can comprising a spout, a resilient sleeve in engagement with said spout and a shoulder on said spout below the end of the same to ensure that the end of said sleeve
50 projects beyond the tip of said spout.

3. An oil can attachment comprising a resilient sleeve adapted to engage the spout of an oil can with one end projecting beyond the tip of said spout, said end being of hemi-
55 spherical form.

In testimony whereof I have hereunto subscribed my name.

EMMET H. MORROW.