

B. F. HUMPHREYS.

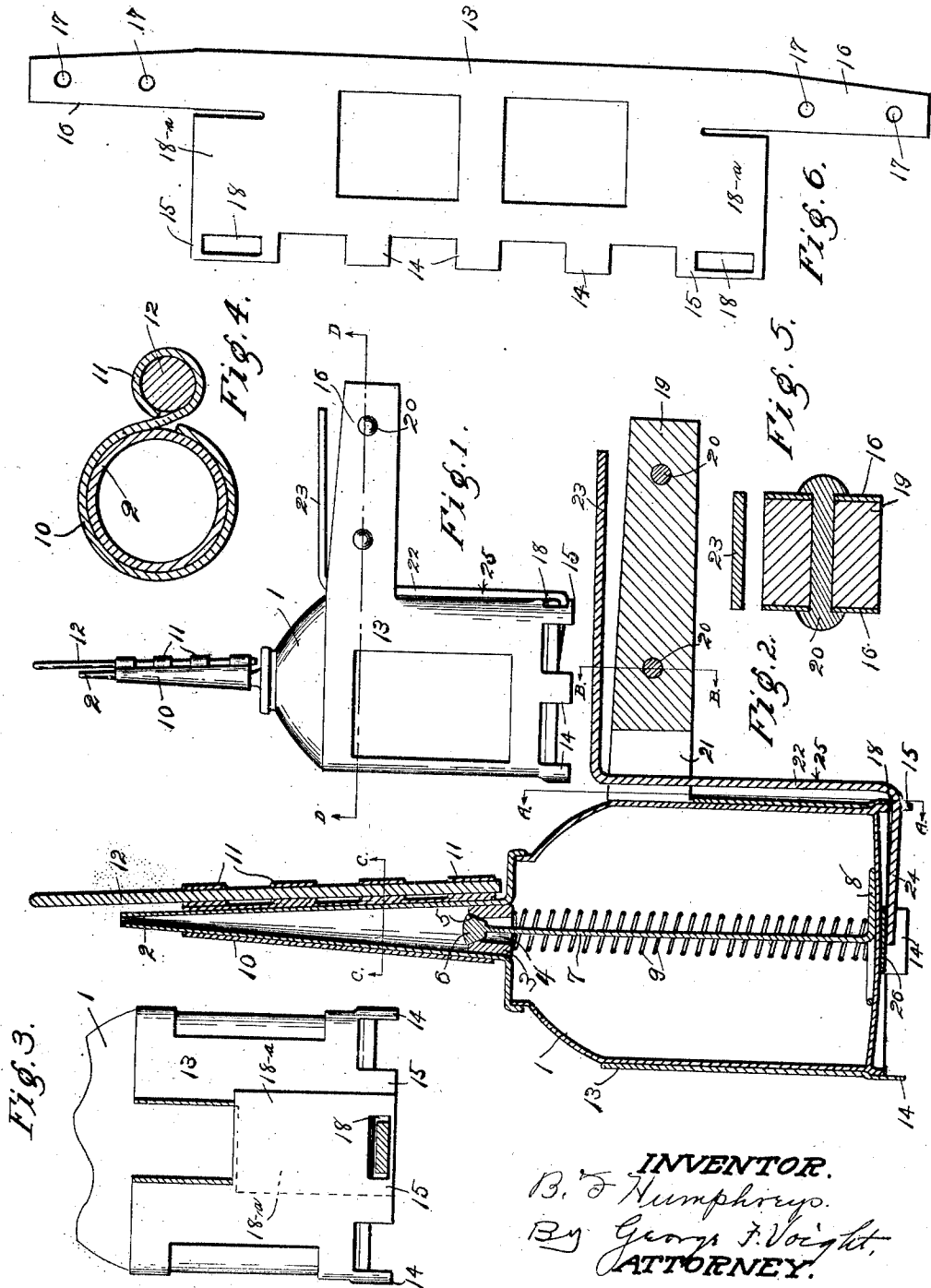
OIL CAN.

APPLICATION FILED MAY 13, 1920.

1,372,228.

Patented Mar. 22, 1921.

2 SHEETS—SHEET 1.



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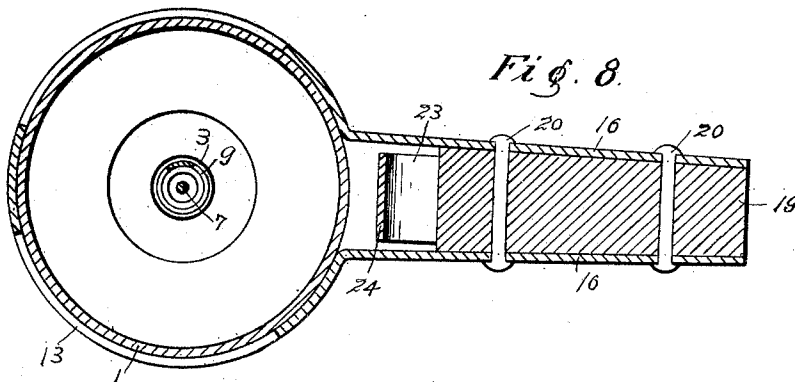
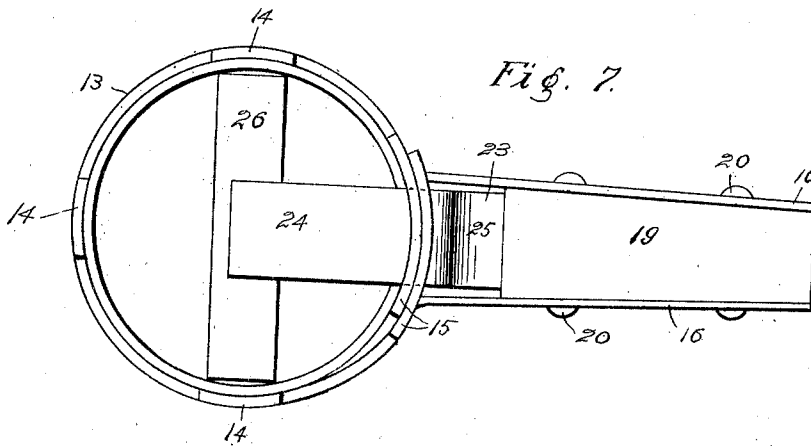
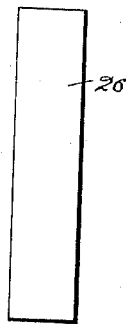


Fig. 9.



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OIL-CAN.

1,372,228.

Specification of Letters Patent. Patented Mar. 22, 1921.

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To all whom it may concern:

Be it known that I, BENJAMIN F. HUMPHREYS, a citizen of the United States, residing at Fresno, in the county of Fresno and State of California, have invented new and useful Improvements in Oil-Cans, of which the following is a specification.

My invention relates to improvements in oil cans embodying an inclosed body portion provided with an upwardly projecting spout for conducting oil contained in the can to oil ports, bearings and the like, of mechanical devices that it may be desired to lubricate, the bottom of the can being flexible and deflectable inwardly against the tension of itself for compressing the contents of the can for ejecting same through its spout.

One of the objects of the invention is to provide an exteriorly disposed lever for operatively deflecting the bottom.

A further object is to provide a spring supported valve or stopper for normally preventing oil contained in the can from entering the spout.

A still further object is to provide a flat spring underlying the bottom of the can and cooperating therewith for moving the lever in a direction toward its normal position.

A still further object of my invention is the provision of a probe rigidly, but removably, secured to the spout of the can and having a portion projecting a distance upwardly above the free end thereof, adapted for cleaning oil ports and the like.

Other objects and purposes of the invention will appear as the description proceeds.

In the accompanying drawings—

Figure 1 is a side elevation of my improved oil can in its preferred form.

Fig. 2 is a median sectional elevation of the device as depicted in the aforesaid figure.

Fig. 3 is a view on line A—A, Fig. 2.

Fig. 4 is a cross section on line C—C, Fig. 2.

Fig. 5 is a cross section through the handle, on line B—B, Fig. 2.

Fig. 6 shows a blank stamping of sheet metal, of clamping means adapted to encircle the body of the can.

Fig. 7 is a bottom plan view of the device.

Fig. 8 is a sectional view on line D—D, Fig. 1.

Fig. 9 is a plan view of the spring disposed against the bottom of the can.

Referring now to the drawings in detail, throughout which like reference characters indicate like parts—

The numeral 1 designates the cylindrical body portion of an oil can provided with the usual spout, designated by the numeral 2.

The spout 2 is conical in form and provided at its lower end with a stationary valve member 3, which has a vertical central opening 4 terminating at its upper end in a valve-seat 5.

6 designates a valve-head seatable in the valve-seat 5 and has rigidly secured thereto a valve-stem 7 freely vertically movable in the opening 4 and extends from said valve-head downwardly, terminating in a lateral extension 8 adapted to seat upon the bottom of the can or in close proximity thereto, when said valve-head is in its normal or closed position. (See Fig. 2.)

9 designates a coil spring encircling the stem 7 and confined against its tension between the valve member 3 and the extension 8, the function of said spring being to normally keep the valve closed against the passage of oil from the body of the can to the spout.

10 is a conical tube rolled out of sheet metal and adapted to fit tightly upon the exterior of the spout 2 intermediate its ends and has on one side a number of spaced apart tubes or circular bands 11. The bands 11 are integral with the tube 10 and encircle and rigidly support a probe or shaft 12, the upper end of the probe 12 projecting a distance above the free end of the spout 2, and its axis extending at a slight angle with the axis of the spout, the function of the probe being to clean out openings through which it is desired to conduct oil emitted from the free end of the spout.

13 designates a sheet metal stamping (a blank stamping being shown in Fig. 6), adapted to encircle the body portion of the can and provided with lips 14 and 15 projecting a distance below its bottom, arms 16 provided with openings 17, and slots 18 in ears 18^a.

After the stamping 13 has been shaped to fit the body of the can, it is intended that the arms 16 shall project outwardly therefrom and approximately parallel with each other and between them support a block 19

rigidly secured thereto by means of rivets 20, the arrangement of said arms and block being such as to form a handle for the can having an opening 21 extending from the top to the bottom thereof.

The ears 18^a are adapted to over-lap as best illustrated in Fig. 7, so that the slots 18 will register with each other.

22 designates the vertical intermediate section, 23 the upper horizontally extending section, and 24 the lower horizontal section, of a lever 25 fulcrumed and supported by the slots 18 and extending movably through the opening 21.

The free end of the section 24 extends to the center of the bottom of the can and engages a flat spring 26 which is confined between said can bottom and said free end.

The upper section 23 of the lever 25 is normally disposed a distance above the handle and movable relative thereto to oscillate the handle upon its pivotal point in the slots 18.

To operate my improved oil can, the can is inverted, when the probe 12 may be used for cleaning out an obstructed oil port, after which by moving the member 23 in a direction toward the handle, it will cause the lever 25 to oscillate upon its point of fulcrum in the slot 18, which will cause the free end of the member 24 to press against the spring 26 and the bottom of the can and deflect these members inwardly thereby reducing the volume of the interior of the can, in other words compressing the contents of the can, and at the same time causing the valve-stem 7 to move longitudinally of itself against the tension of the coil spring 9 and to lift and open the valve 6, when the contents that may be contained in the can may pass into the spout 2.

The spring 26 is adapted to assist the tension of the can's bottom in causing the lever 25 to move back to its normal position after the can has been operated for oiling. It also is intended as a wear-piece to protect the bottom of the can from excessive wear from operative contact with the end of the member 24.

It is to be understood that changes in the

precise embodiment of the invention as described may be made within the scope of what is claimed without departing from the spirit of the invention.

Having described my invention, what I claim is—

1. The combination with an oil can, of a clamp encircling the body portion thereof, and a lever fulcrumed upon said clamp and engageable with the bottom of the can for operatively deflecting it.

2. The combination with an oil can, of a clamp encircling the body portion of the can, a handle for the can secured to said clamp, and a lever fulcrumed upon said clamp and having one end disposed along one side of the handle and its other end disposed below the can and operatively engageable with the bottom thereof for deflecting it when said first named end of the handle is moved in the proper direction.

3. The combination with an oil can, of means carried by the body portion of the can, a lever fulcrumed upon said means and having a portion disposed along one side of the handle and movable relative thereof, and a spring underlying the can and engaging the bottom thereof, one end of said lever operatively engageable with said spring for deflecting the bottom of the can when the other end of the handle is moved in the proper direction relative to the handle.

4. The combination with an oil can having a flexible bottom, of a spring lying against the lower side of said bottom, and a lever having an intermediate portion fulcrumed on the can and one of its free ends operatively engageable with said spring.

5. The combination with an oil can having a flexible bottom, of a spring disposed against the lower side of said bottom, means secured to the can, and a lever having an intermediate portion fulcrumed on said means and one end operatively engageable with said spring.

In witness that I claim the foregoing as my own, I have hereunto signed my name this 6th day of May, 1920.

BENJAMIN F. HUMPHREYS.