

July 5, 1938.

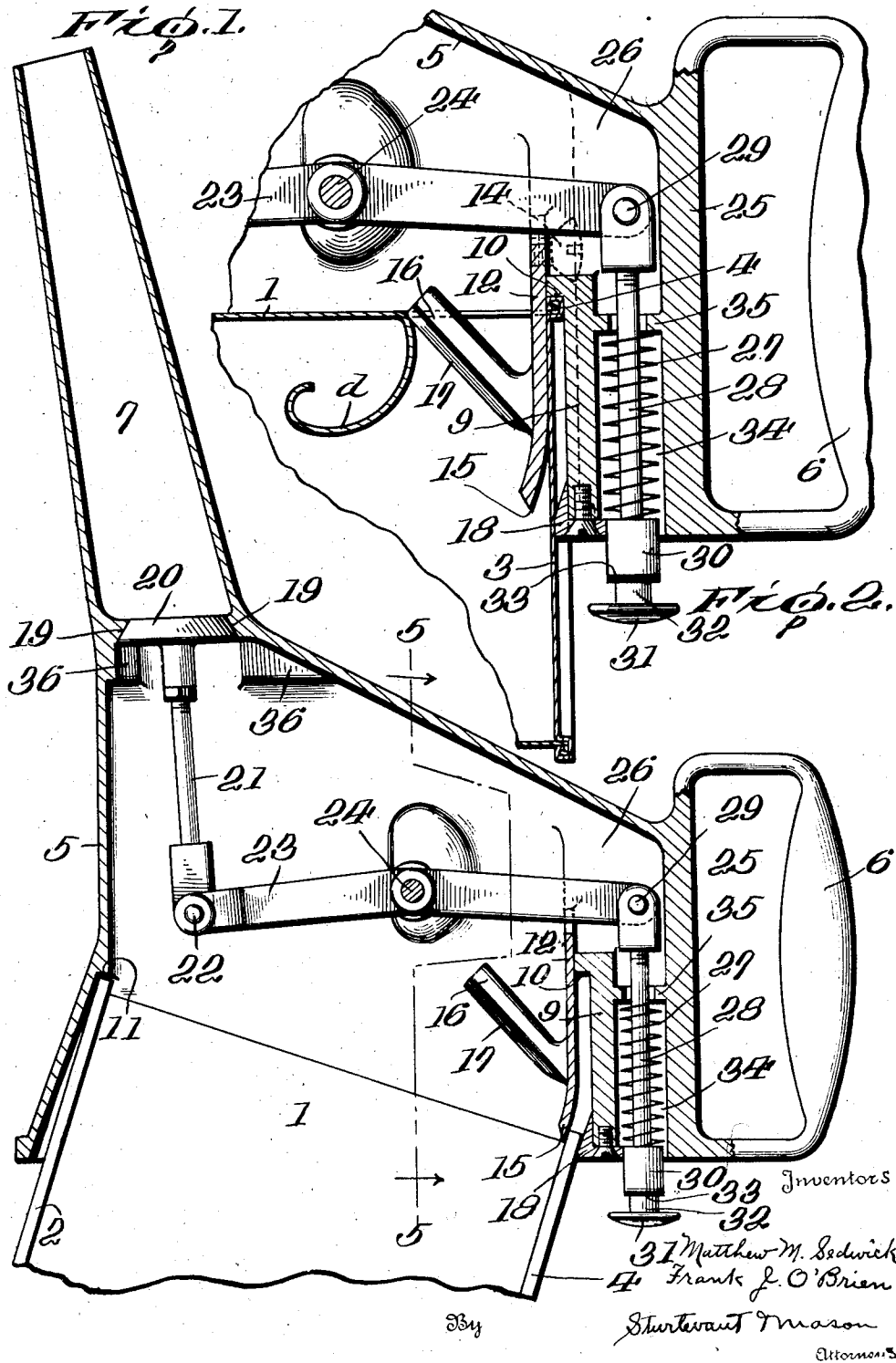
M. M. SEDWICK ET AL

2,122,540

DEVICE FOR DISPENSING LUBRICATING OIL

Filed March 30, 1934

3 Sheets-Sheet 1



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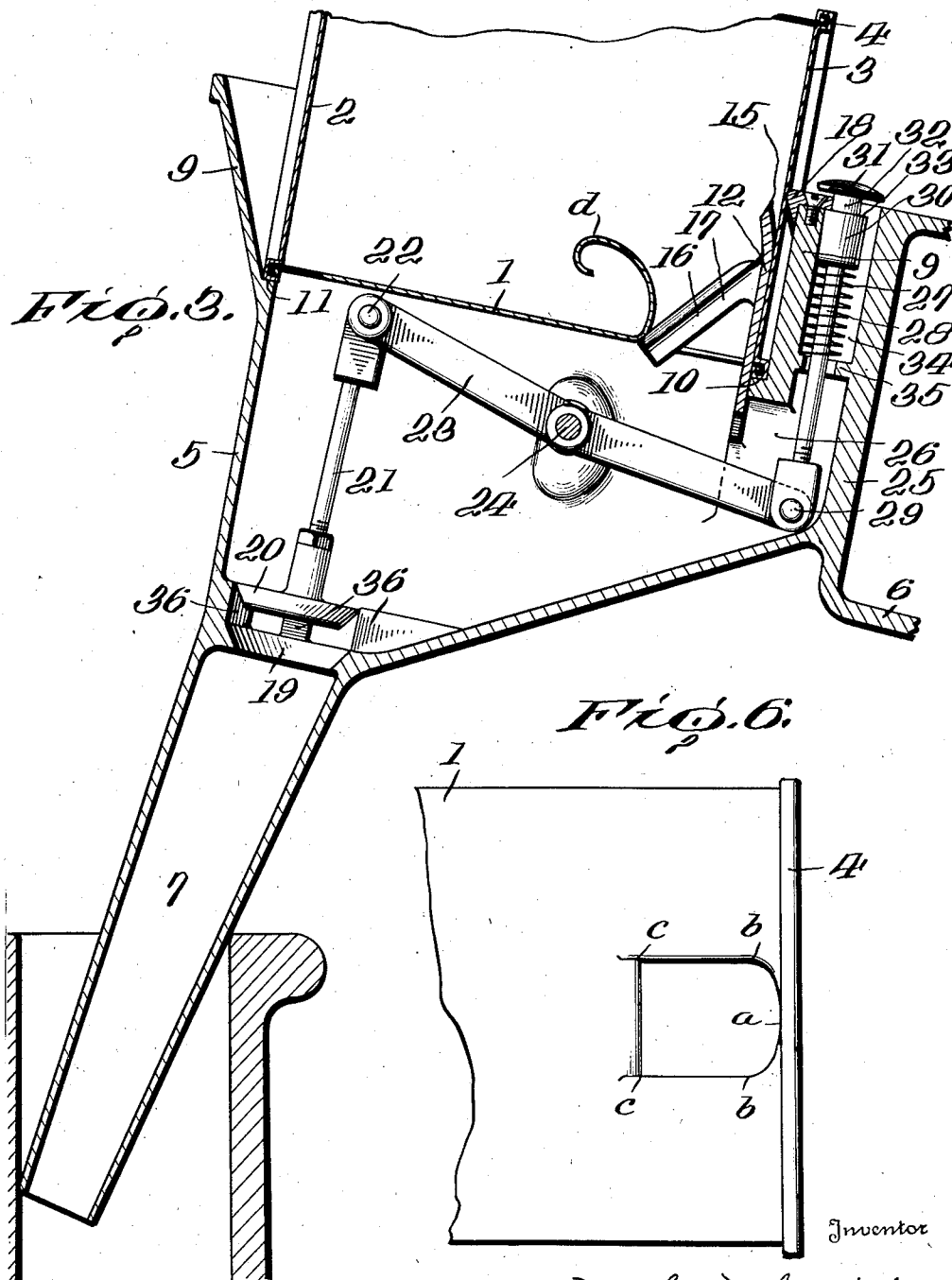
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DEVICE FOR DISPENSING LUBRICATING OIL

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3 Sheets-Sheet 2



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DEVICE FOR DISPENSING LUBRICATING OIL

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3 Sheets-Sheet 3

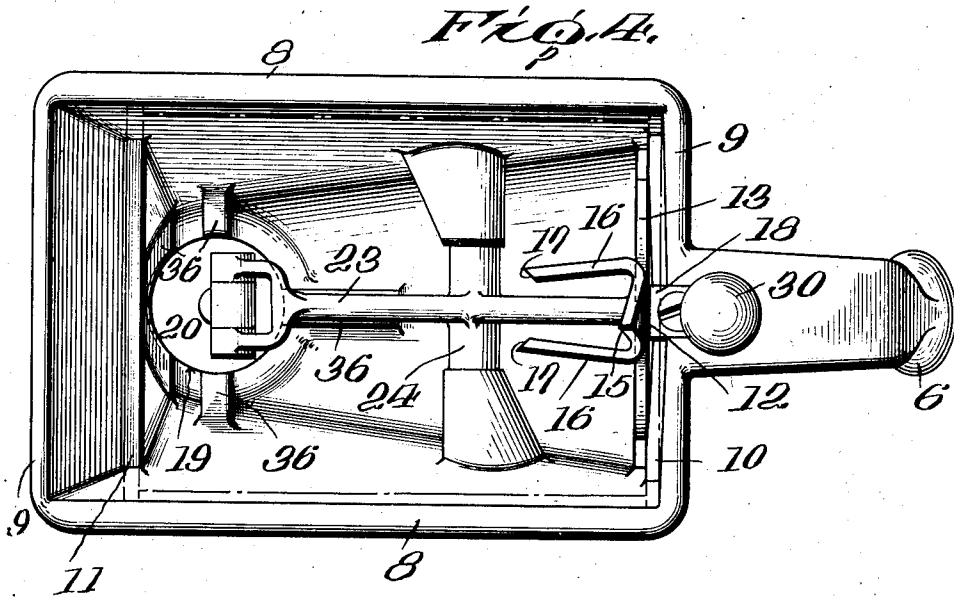
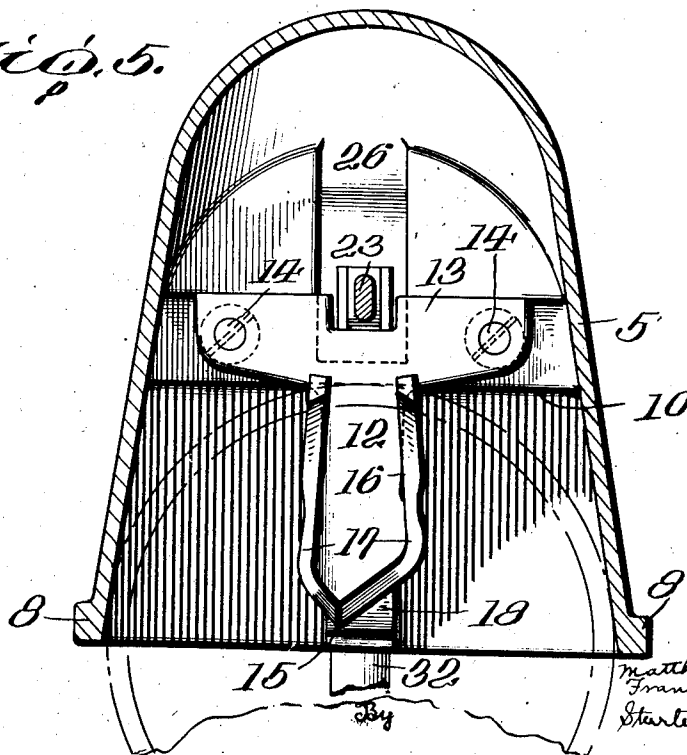


FIG. 5.



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DEVICE FOR DISPENSING LUBRICATING OIL

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Application March 30, 1934, Serial No. 718,303

6 Claims. (Cl. 221—23)

The invention relates to new and useful improvements in a device for dispensing lubricating oil. It is a common expedient to package liquid products in hermetically sealed metal containers consisting of a body portion with ends double seamed thereto. Lubricating oil is being put out by the original producers in sealed containers and sold at filling stations where they are opened in the presence of the customers. Various devices have been provided for opening the container for the dispensing of the lubricating oil. The opening is usually formed in the end wall of the container. Unscrupulous dealers have made a practice of utilizing the empty containers from which the oil has been dispensed for packaging inferior grades of oils and selling the same under the trade name on the empty containers. This is accomplished by cutting the container body just below the double seam which joins the end to the body, after which the container body is flanged and filled and a new end double seamed thereto.

An object of the present invention is to provide a dispensing device for containers wherein the opening through which the oil is dispensed is formed in the side wall of the container so that the container is rendered unfit for re-use in the manner above described.

In the drawings which show by way of illustration one embodiment of the invention—

Figure 1 is a vertical sectional view through a dispensing device showing the same as initially applied to a container preparatory to the forming of an opening in the side wall thereof;

Fig. 2 is a similar view of a portion of the dispensing device, but showing the same fully applied to the container and the opening formed through which the liquid is to be dispensed;

Fig. 3 is a view showing the dispensing device with the container therein inverted and positioned for dispensing the oil into the crank chamber of an engine;

Fig. 4 is a plan view of the dispensing device;

Fig. 5 is a sectional view on the line 5—5 of Fig. 1, and

Fig. 6 is a view of a container opened by a dispensing device.

The container in which the oil is marketed, as shown in the drawings, consists of a body portion 1 to which end portions 2 and 3 are secured by double seaming as indicated at 4. The dispensing device embodying the present invention is so constructed that the opening through which the oil or liquid content of the container is dispensed is formed in the side wall of the body

portion of the container. This opening is formed by a cutter which penetrates the side wall close to the double seam at the point *a*, and cuts the side wall along the lines *a*, *b*, thence along the lines *b*, *c*, rolling inwardly and backwardly the metal as indicated at *d*. This dispensing opening lies close to the end 3 and permits all of the liquid content to be dispensed from the container through the opening.

The dispensing device for forming the opening in the side wall of the container includes a body portion 5 having a handle 6. Located at one side of the body portion is a spout 7 which inclines away from the handle. The body portion of this oil dispensing device is rectangular at the open side thereof. Said body portion consists of side walls 8, 8 and end walls 9, 9. The handle 6 is attached to one of these end walls 9. Extending lengthwise of the end wall 9 adjacent the handle is a supporting rib or ledge 10. At the other end wall 9 of the body there is a supporting ledge 11.

During the placing of the container in the dispensing device, the opening in the side wall thereof is formed. A cutter 12 is provided for this purpose. Said cutter consists of a shank member 13 which is secured by screws 14, 14 to the end wall 9 adjacent the handle. Said shank member extends outwardly along the end wall, but is spaced therefrom the width of the seat or ledge 10. The width of this seat or ledge 10 is the width of the double seam joining the container end to the body thereof. The outer end of this shank member 13 is curved laterally and terminates in a piercing point 15 which is spaced away from the end wall 9 of the body portion of the dispensing device. The shank member 13 also carries downwardly and laterally extending arms 16, 16, each of which is provided with a cutting edge 17. There are cutting edges at each side of the shank member 13 leading from the piercing point into the cutting edges 17, 17, respectively. The end wall 9 adjacent the handle is provided with a gauge block 18 which projects inwardly and overhangs the end wall 9. This gauge block is substantially in alignment with the outer face of the shank member 13 of the cutter, and is spaced away from the piercing point the width of the double seam.

When it is desired to open a container, it is placed in the chamber formed in the body portion and the double seam 2 brought into contact with the supporting ledge 11, while the opposite end of the container rests against the gauge block 18. This will cause the point 15 of the

cutter to contact with the body wall adjacent the double seam 4. The outer face of the cutter is curved substantially about a center at the ledge 11, and therefore, when pressure is applied against the container to force it on to the cutter, or against the cutter to force it into the container, the cutter will penetrate the body wall close to the double seam and will cut the body wall along lines leading away from the double seam. When the container is fully seated in the dispensing device, this gauge block 18 contacts with the end wall of the container and helps to hold it firmly in place during the dispensing of the oil from the container, but at the same time, it permits the container to be readily removed or disconnected from the dispensing device.

The penetrating point 15 of the cutter enters the body wall of the container at the point *a*, and the cutting edges on the shank member 13 of the cutter will sever the metal along the lines *a-b*. The cutting edges on the arms of the cutter will sever the metal along the lines *b-c*, and it is the arms which roll the metal *d* between the severed lines inwardly and backwardly away from the opening, so as to form a free dispensing opening.

In the applying of the dispensing device to the container, the container may be laid on its side on a solid foundation and then the dispensing device inverted and lowered on to the same so as to bring the double seam 2 into contact with the ledge 11 and the container body into contact with the piercing point of the cutter. Pressure is then applied to force the cutter into the body wall for the cutting of the same. The container may, however, be placed in the dispensing device while in upright position and forced down on to the cutter. There is sufficient frictional grip between the dispensing device and the container to aid in holding the parts assembled and the operator can readily reach the container and aid in holding the same in the dispensing device as the dispensing device is lifted and inverted for the discharging of the oil from the container into the body portion of the dispensing device and from said body portion through the spout 7 to the chamber where it is to be used. It is sometimes desirable to stop the flow of oil from the dispensing device, and there is shown in the present embodiment of the invention, a valve mechanism for controlling the flow of oil from said dispensing device.

At the inner end of the spout there is a valve seat 19 with which a valve 20 makes contact. Said valve 20 is carried by a stem 21 which is pivoted at 22 to a lever 23. This lever 23 is mounted on a fulcrum rod 24 which in turn is mounted in the side walls 8, 8 of the body portion of the dispensing device. Centrally of the end wall 9 adjacent the cutter is an extension 25 which carries the handle 6. Said extension 25 is an integral part of the body portion of the dispensing device. Said extension is provided with a chamber 26 into which the lever 23 extends. Said extension is also provided with a recess 27. A rod 28 extends lengthwise of this recess 27 and is pivoted at 29 to the lever 23. This rod at its upper end carries a sleeve 30 formed with a button 31 at its upper end, and with a recess 32 beneath the button, providing a shoulder 33. There is a spring 34 located in the recess 27, which engages the inner face of this sleeve 30. This spring also bears on a partition wall 35 having an opening in which the rod 28 freely moves. When the button is re-

leased, the spring will swing the lever 23 so as to seat the valve. The valve is guided by lugs 36, 36 in its movements. When the button 31 is forced inward, then the valve is unseated, and the oil will flow freely in between these lugs 36 and through the opening into the spout. If it is desired to hold the valve raised, the rod 28 is moved laterally so that the shoulder 33 will catch beneath the inner end of the gauge block 18. It can readily be released by a lateral movement from said gauge block, and then the spring will close the valve. This valve mechanism for controlling the flow of oil from the dispensing device may be completely dispensed with, if desired. The operator after having placed the dispensing device on the container so as to form the opening in the body wall thereof, may lift the dispensing device and container as a unit in such a way that the spout can be inserted in the pipe leading to the chamber where the oil is to be used before the flow of oil from the opening reaches the end of the spout. From certain aspects of the invention, however, it is preferable to provide a valve mechanism for controlling the flow of oil, so that the oil may be held until the spout is placed in a position where it is desired to dispense the oil. The body portion of the dispensing device is of sufficient capacity so as to receive the oil from the container without causing the oil to contact with the wall of the container which is being emptied, thus there is no oil wasted by adhering to the outside of the container.

It is obvious that minor changes in the details of construction may be made without departing from the spirit of the invention as set forth in the appended claims.

Having thus described the invention, what we claim as new and desire to secure by Letters Patent, is—

1. An oil dispensing device comprising a body portion open at one side thereof and having a spout extending from the opposite side of said body portion, means for supporting a container in said body portion with its longitudinal axis extending across said body portion and so that a plane containing the outer edges of the body portion passes substantially through the center of the container, and a cutter located in said body portion and having a piercing point disposed relative to the support for the container so as to pierce the side wall of the container body adjacent the end seam.

2. An oil dispensing device comprising a body portion open at one side thereof and having a spout extending from the opposite side of said body portion, means for supporting a container in said body portion with its longitudinal axis extending across said body portion and so that a plane containing the outer edges of the body portion passes substantially through the center of the container, and a cutter located in said body portion and having a piercing point disposed relative to the support for the container so as to pierce the side wall of the container body adjacent the end seam, said cutter having cutting edges inclined and diverging away from said piercing point for cutting the body wall of the container along diverging lines and for rolling the metal between said lines into the container body so as to form an oil dispensing opening in said wall.

3. An oil dispensing device comprising a body portion having a spout connected thereto, means for supporting a container in said body portion

with its longitudinal axis extending across said body portion, a cutter located in said body portion and having a piercing point disposed relative to the support so as to pierce the side wall of the container body adjacent the end seam for forming a dispensing opening therein, a valve for controlling the flow of liquid from the body portion of the dispensing device through said spout, and means whereby said valve may be opened and closed at will.

4. An oil dispensing device comprising a body portion having an open side, a handle attached to said body portion, a spout connected to the body portion at the side opposite the opening, a support within said body portion for a container, said body portion and support being shaped and positioned so that the container placed in said body portion and resting on said support will have a portion thereof projecting from said body portion, a cutter located within said body portion and having a piercing point disposed relative to the support so as to pierce the side wall of the container body adjacent the end seam for forming a dispensing opening therethrough, a valve for controlling the flow of the liquid from the body portion of the container through said spout, a lever attached to said valve, and an operating means attached to said lever and disposed adjacent said handle whereby said lever may be manipulated for controlling the valve.

5. An oil dispensing device comprising a body portion having an open side, a handle attached to said body portion, a spout connected to the body portion at the side opposite the opening, a support within said body portion for a container,

said body portion and support being shaped and positioned so that the container placed in said body portion and resting on said support will have a portion thereof projecting from said body portion, a cutter located within said body portion and having a piercing point disposed relative to the support so as to pierce the side wall of the container body adjacent the end seam for forming a dispensing opening therethrough, a valve for controlling the flow of the liquid from the body portion of the container through said spout, a lever attached to said valve, an operating means attached to said lever and disposed adjacent said handle whereby said lever may be manipulated for controlling the valve, a spring for closing the valve, and a latch associated with said operating means for releasably holding said valve in open position.

6. An oil dispensing device comprising a body portion having a spout connected thereto, means within the body portion for supporting a container, a cutter located in said body portion of the dispensing device and having a piercing point for penetrating and forming an opening in the side wall of the container, a valve at the inner end of the spout for controlling the flow of liquid from the body portion of the dispensing device through said spout, said supporting means for the container being disposed relative to said valve so as to provide sufficient capacity within the dispensing device for the oil emptied from the container whereby the oil is out of contact with the outer face of the container.

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