My invention relates to improvements in hand oilers, and an important object of the invention is to provide an efficient and easily operated device of this kind, having a novel arrangement of parts and elements, promoting easy assembly and repair.

Other objects and advantages of my invention will be apparent from a reading of the following description of the invention, wherein for purposes of illustration I have shown a preferred embodiment of the invention.

In the drawing:

Figure 1 is a general vertical transverse sectional view through the embodiment.

Figure 2 is a horizontal sectional view taken through a portion of the device showing the construction of the nozzle valve mechanism.

Referring in detail to the drawing, wherein like numerals refer to like parts throughout the same, the numeral 1 generally designates the embodiment which comprises a vertical cylindrical casing 6 having an inset flange 7 on its upper end on which is formed an exteriorly threaded annulus 8, with which is adapted to be threadedly mounted the spherical segmental top 9.

One side of the casing 6 is thickened and enlarged as indicated at 10 and provided with a vertical channel 11 therein. The bottom 12 of the enlargement 10 is somewhat spaced about the bottom 13 of the casing 6 so that the lower end of the channel 11 communicates with the interior of the casing. The enlargement 10 has at its upper end and radially inwardly projecting into the container a rounded enlargement 14 through which is transversely journaled a tapered cock 15 which is rotatably secured by means of a washer and nut structure 16 at one end thereof. The other end of the cock 15 is provided with a disk 16 which has an eccentrically located pin 17 with which is rockably connected a connecting rod 18 for operating the cock. The cock is provided with a transverse passage 19.

Adjacent the enlarged portion 14 and projecting radially outwardly of the casing 6 is the nozzle 20 provided on its outer end with a spray jet 21 which may be screw-threadedly mounted thereon. The nozzle is provided with the longitudinally extending passage 22 which communicates with the chamber in which the cock 15 works. The upper end of the channel 11 is radially inwardly and upwardly extended until it reaches a level of alignment with the passage 22, where it is radially outwardly directed into the cock chamber, so that its opening therein is aligned with and registered with the opposed opening of the channel 22.

Rotating the cock 15 by means of the operating lever 18 will bring about the alignment and registry of the passage 19 in the cock with the openings of the channels 11 and 22 so as to permit passage of fluid, such as ordinary lubricating oil, from the interior of the casing 6 through the nozzle and jet 21.

Means for operating the operating rod 18 comprises the slide bar 23 which is slidably mounted through a stuffing box 24 located at a point approximately diametrically opposite the nozzle 20. The stuffing box comprises an adapter 25 thread-and-opposed into the wall of the container and provided at its inward end with an opening 26 for slidably and snugly receiving the rod 23. Into this is threaded a ferrule 27 which engages the packing 28 for making a leak-proof engagement of the parts. The bar 23 has circumposed therein a spring 29 which operates between the ferrule 27 and the thumb knob 29 on the outward end of the bar 23. This arrangement of the spring normally operates the bar 23 so that the cock will be maintained in the closed position.

Under the thumb operated valve opener 29 there is located a vertically disposed handle 30. The handle 30 and the thumb operated member 29 are so located in correlation that the device may be easily carried about and manipulated and directed, and at the same time be always under operating control with respect to the opening and closing of the cock 15.

The top 30 seats upon an annular packing washer 31 which rests upon the upper end of the casing 6. The top 9 is provided in one side with a clean-out or filling threaded plug 32 for enabling filling the device with lubricant and the like, and cleaning the same when necessary.

For generating pressure in the casing 6 for forcing out the lubricating oil or the like when the cock 15 is operated into the open position, so as to spray such fluid, pressure generating means is carried by the top 9. The pressure generating means comprises an open-top, vertically elongated hollow cylinder 33 which is threaded into an opening 34 in the middle part of the cap 9. In this connection a packing washer 35 is utilized to preserve the pressure-tight condition of the casing. The bottom of the cylinder 33 is closed except for a threaded opening 36 centrally thereof which communicates with a valve chamber 37 in a depending neck 38. Within the valve chamber 37 is a spring-urged ball check valve 39 which seats in the upper end of the chamber normally to close the passage of fluid into the cylinder 33.

Threaded into the upper end of the cylinder 33...
33 is a threaded plug 40 which has a recessed underside to coact with an irregularly shaped packing 41 which rests upon a threaded body 42. The members 40, 41 and 42 are provided with a registering opening therethrough in which is slideably and closely disposed a piston rod 43 which has threaded on its lower end portion a metallic disk 44, a metal or rubber cap 45 for enabling the production of fluid pressure upon pushing the rod into the cylinder 33. The upper end of the rod is provided with a handle 46.

Though I have shown and described herein a preferred embodiment of the invention, it is to be definitely understood that I do not desire to limit the application of the invention thereto, and any change or changes may be made in material and structure and arrangement of parts, within the spirit of the invention and the scope of the subjoined claims.

What is claimed is:

1. A hand oiler comprising a pressure oil container provided with a discharge nozzle, a wall of the container having an oil passage therein leading to said nozzle and communicating with the interior of said container, a valve interposed in said oil passage, valve operating means connected to said valve and extending slidably through the wall of the container opposite that in which said oil passage is located.

2. A hand oiler comprising a pressure oil container provided with a discharge nozzle, an oil conduit on a wall of the container and leading to said nozzle, a valve at the juncture of said conduit and the nozzle, valve operating means connected to said valve and extending slidably through a wall of the container opposite that on which said oil conduit is located, said oil conduit being integral with the first wall, said nozzle also being integral with said first wall.

3. As a new article of manufacture, a pressure oiler comprising a cast container including a laterally and outward directed spout having a portion within said container, an enlargement on said portion containing a valve mechanism, a part on the adjacent inner wall of the container joining said enlargement and having its lower end spaced from the bottom of said container, said part, said enlargement, said portion and said spout having a discharge passage extending therethrough, and being cast in one piece with said container, and removable pump means closing the open upper end of said container.

4. In a pressure oiler including a container and pump means, said pump means including a barrel having a closed inner end provided with a threaded socket, said inner end being provided with a passage leading therethrough from said socket and having a check valve in communication with said passage and with the interior of said container, a piston reciprocable in said barrel, a piston rod fastened to said piston and having a threaded extremity for threading into said socket to hold said rod engaged with said socket and closing said passage, so as to nullify possible leakage of said valve.

5. A hand oiler comprising a pressure oil container provided with a discharge nozzle, a wall of said container having an oil passage communicating with the interior of said container and leading to said nozzle, a valve interposed in said oil passage adjacent said nozzle, a radially inwardly projecting body on said wall containing said valve, valve operating means connected to said valve and extending outwardly of said container.

6. A hand oiler comprising a pressure oil container provided with a discharge nozzle projecting horizontally from one side wall thereof, said wall having an oil passage therein communicating with the interior of said container and leading to said nozzle, a valve body integrally formed on said wall through which said passage passes, and valve means in said valve body and interposed in said oil passage.

7. A hand oiler comprising a pressure oil container provided with a discharge nozzle extending laterally from a wall of the container below the top of the container, said wall having an oil passage therein communicating with the interior of said container and leading to said discharge nozzle, a valve body integrally formed on said wall through which said passage passes, and valve means in said valve body and interposed in said oil passage, a portion of said wall surrounding said passage being inwardly enlarged.

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