

(No Model.)

N. GUYER.
LUBRICATOR.

No. 471,001.

Patented Mar. 15, 1892.

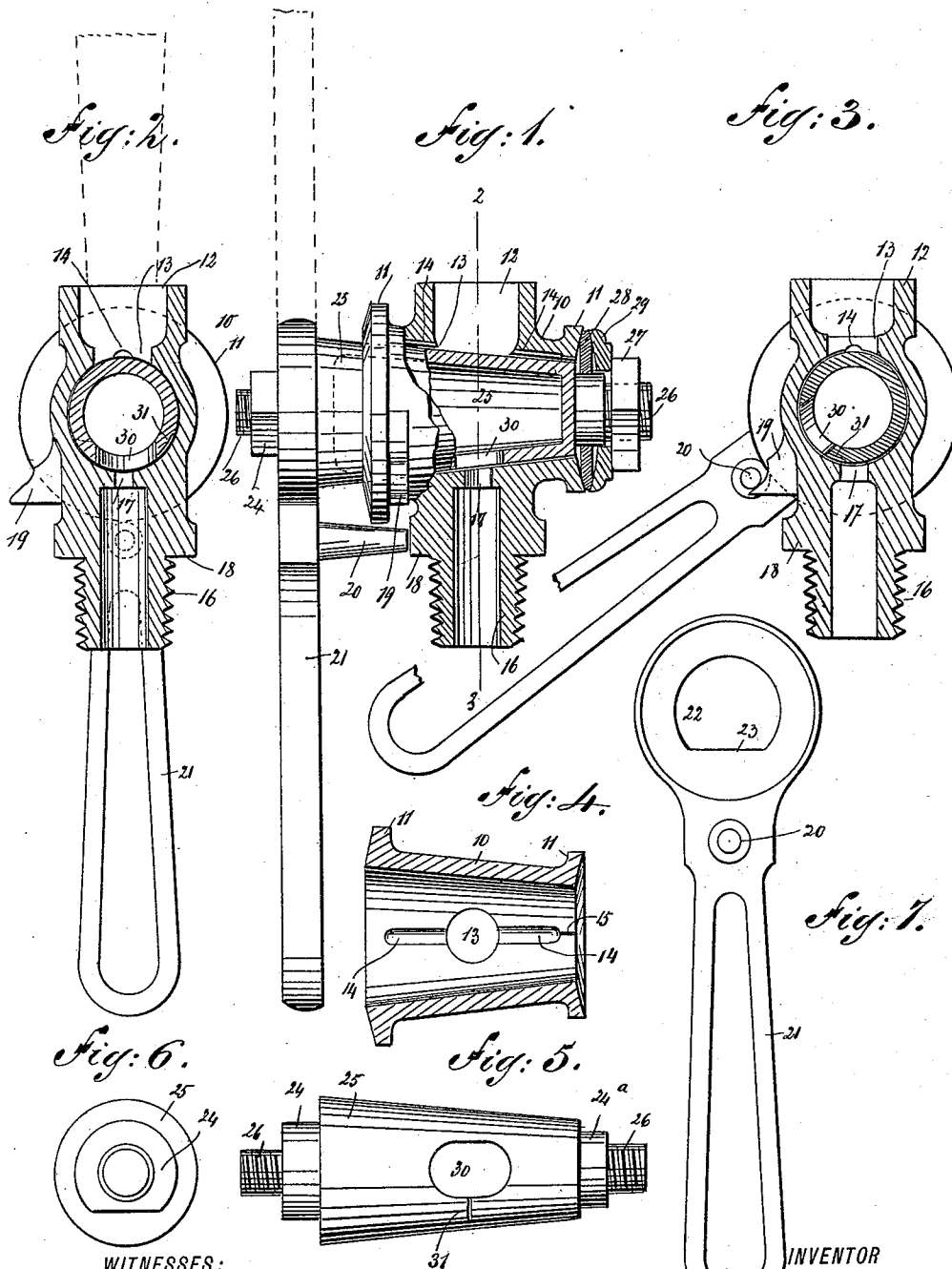
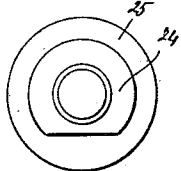


Fig. 6.



WITNESSES:

Chas. Moore.
Co. Sedgwick

Fig. 4.

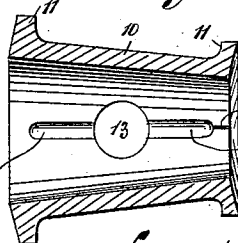


Fig. 5.

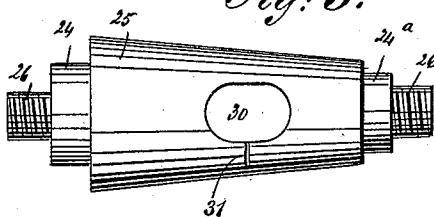


Fig. 3.

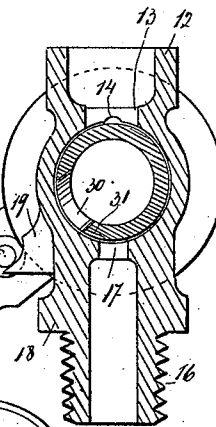
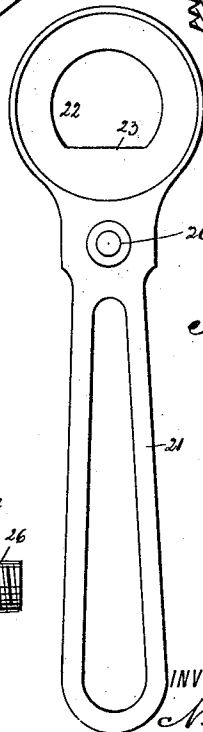


Fig. 1.



INVENTOR

N. Guyer

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

NELSON GUYER, OF ETHEL LANDING, PENNSYLVANIA.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 471,001, dated March 15, 1892.

Application filed September 14, 1891. Serial No. 405,630. (No model.)

To all whom it may concern:

Be it known that I, NELSON GUYER, of Ethel Landing, in the county of Beaver and State of Pennsylvania, have invented a new and Improved Oil-Cup, of which the following is a full, clear, and exact description:

My invention relates to improvements in oil-cups such as are especially adapted for use on engines, pumps, drilling-machines, and similar heavy machinery; and the object of my invention is to produce a simple and inexpensive cup which will not need to be filled very often, which is adapted to use any kind of lubricant, and which may be instantly adjusted so as to feed either fast or slow, as desired.

To this end my invention consists in certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a broken side elevation, partly in vertical section, of the oil-cup embodying my invention. Fig. 2 is a vertical cross-section on the line 2 3 of Fig. 1, showing the cup in position to feed fast. Fig. 3 is a vertical cross-section on the same line, showing the cup in position to feed slowly. Fig. 4 is an inverted longitudinal section of the upper portion of the outer shell. Fig. 5 is a detail plan view of the cup-core. Fig. 6 is an end view of the same, and Fig. 7 is a detail view of the handle.

The cup is provided with an open-ended tapering shell 10, which is preferably provided with flanges 11 at the ends and which has formed on its upper side a funnel or cup 12, having a large opening 13 into the interior of the shell. The shell has on its inner wall and on the upper side longitudinal grooves 14, which lead from the openings 13 and provide for the oiling of the central core, so that the same will not stick, and a very fine groove 15 leads from the outer end of one of these grooves 14 to the end of the shell, so that the washer fitting against the shell end may be lubricated. The under side of the shell has formed thereon a threaded nipple 16, which has a bore 17, opening through the shell, and

which has a shoulder 18, which forms the base of the cup when the nipple is screwed into a support. The shell has also near its larger end a projecting ear 19, which is adapted to engage a laterally-extending pin 20 on the handle 21 of the cup-core and limit the movement of the handle. The handle 21 has its attaching end broadened to form a washer, 60 and this broadened portion has a central aperture 22, having on one side a flattened surface 23, which fits a corresponding surface on the stem 24 of the inner core 25, so that when the handle is applied to the core the core and handle may turn together. The body portion of the core 25 is hollow, so that it may contain oil, and the core is ground so as to fit nicely in the shell 10. The core has at one end a stem 24, which receives the handle, as above described, and has at the opposite end a similar stem 24', which projects from the smaller end of the shell 10. The extreme ends 26 of the core are reduced and threaded, so that fastening-nuts 27 may be secured thereto and hold the shell and handle in proper position upon the core. On the smaller end of the core, which projects from the smaller end of the shell 10, is a packing-washer 28, which may be of any approved material, and this washer is pressed in place by a stiff washer 29, which is pressed against the packing-washer by one of the nuts 27, and the packing-washer is concaved on its inner sides, and by reference to Fig. 1 it will be seen that the end of the shell next the washer is also slightly concaved. The object of this construction is to provide for winding any desired kind of packing between the washer 29 and the shell 10 as a substitute for the packing-washer 28. The object of the packing is to prevent any leakage from the smaller end of the core. The core 25 has centrally on one side a large opening 30, which is adapted to register with the opening 13 of the cup 12 and is also adapted to register with the bore 17 of the nipple 16. This opening is made large, and so is the opening 13, so that where a heavy lubricant—such as tallow—is used it may be easily crowded through the two openings 13 and 30 into the core 25. A small groove 31 is made in the face of the core 25 and leads from one side of the opening 30, this groove providing for a slow feed, and when the handle is in position to have the pin

20 rest upon the upper side of the ear 19, as in Fig. 3, the groove 31 will extend from the opening 30 to the bore 17, so that the oil will follow the groove and drip slowly through the
 5 bore 17. The cup is secured to any piece of machinery to be oiled in the usual way, and if the oil is to be fed rapidly the handle 21 is turned down, as shown in Figs. 1 and 2, so that the bore 17 and opening 30 in the core will
 10 register and the oil will thus flow through the registering openings and upon the part to be oiled. If, however, the oil is to be fed slowly, the handle is turned into the position shown in Fig. 3, and the oil will follow the groove 31
 15 to the bore 17, as already described.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In an oil-cup of the class hereinbefore
 20 indicated, the combination of the apertured core 25 with the shell having an opening 12 in its upper side and a longitudinal groove in its inner upper side leading from said opening to the end, and means applied to the re-
 25 duced end of the core for securing it in the shell, as shown and described.

2. In an oil-cup, the combination, with the

shell having top and bottom openings, as specified, of the revoluble hollow core having an opening adapted to register with said open- 30
 ings in the shell and provided exteriorly with a circumferential groove 31, leading laterally from the core-opening, a handle for the core, and a stop for limiting the rotation of the core, the relation of parts being such that the 35
 groove spans the space between the core and lower shell-opening when the handle is arrested by the stop, as shown and described.

3. An oil-cup comprising a tapering exterior shell having a nipple on the under side, a cup 40
 on the upper side, openings leading to the cup and nipple, and internal grooves leading from the top opening, a tapering core held to turn in the shell, said core having an opening to register with the shell-openings and having a 45
 groove leading laterally from its opening, a handle secured to the core, and means, as a lug on the shell and a pin on the handle, to limit the movement of the latter, substantially as described.

NELSON GUYER.

Witnesses:

G. A. MCKOWN,
 GEO. A. LASHELL.