No. 647,467. Patented Apr. 17, 1900.

W. S. BOYD.

OILER.

(Application filed Dec. 20, 1897.)

(No Model.)

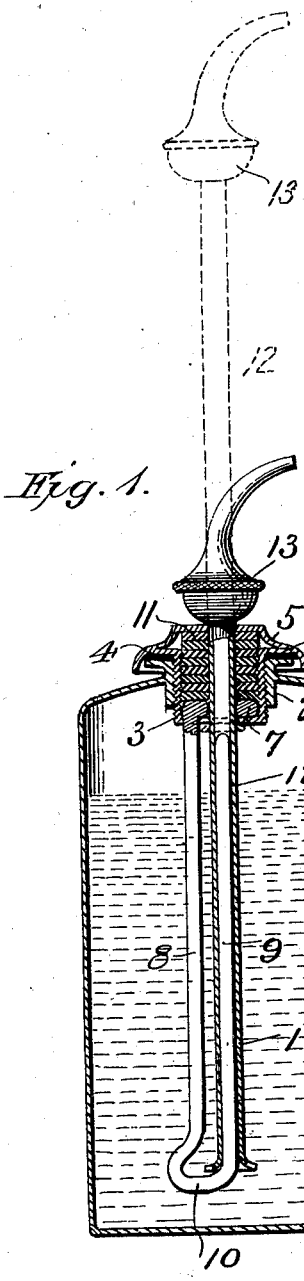

Fig. 1.

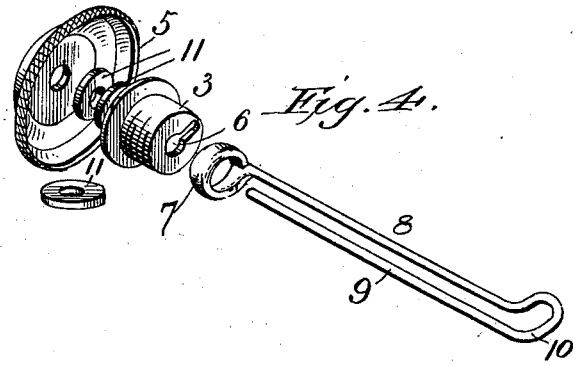

Fig. 4.

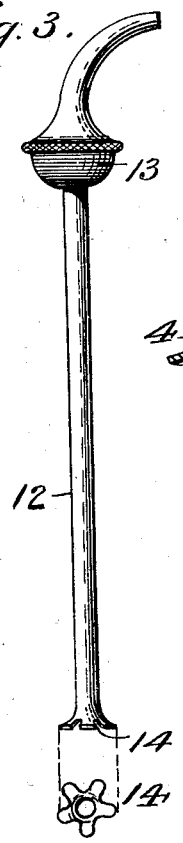

Fig. 3.

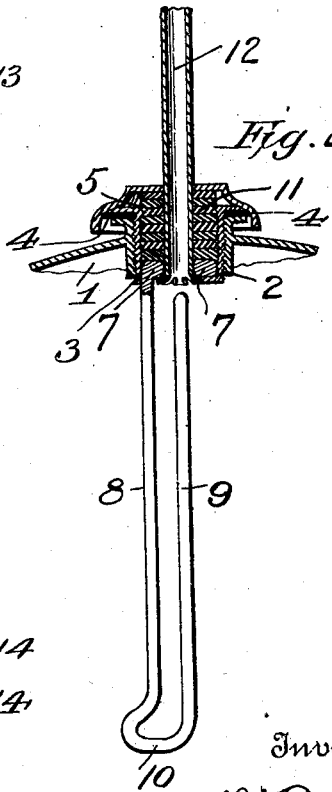

Fig. 2.

Witnesses
Franck L. Durand.
George J. Heber

Inventor
W. S. Boyd

UNITED STATES PATENT OFFICE.

WILLIAM SABERT BOYD, OF WASHINGTON, DISTRICT OF COLUMBIA.

OILER.

SPECIFICATION forming part of Letters Patent No. 647,467, dated April 17, 1900.

Application filed December 20, 1897. Serial No. 662,662. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM SABERT BOYD, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Oilers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to oilers, and more particularly to a combined spout and plug or cover in which the spout is made extensible, so that it may be collapsed for storage in a small space—as, for instance, in the toolbag of a bicycle; and it has for its object to produce a device which may be applied to a can or body of any desired size or contour; and it consists in the novel features of the same, as will be hereinafter more particularly set forth.

Referring to the accompanying drawings, in which the same reference-numeral indicates the same part in each of the views in which it occurs, Figure 1 is a longitudinal sectional view of an oiler embodying my invention, the spout being shown in two positions. Fig. 2 is a view of the spout, and Figs. 3 and 4 are detail views.

Referring more particularly to the drawings, 1 indicates the body or can of the oiler, which may be of any suitable size and dimensions, provided at its top with an ordinary screw-threaded bushing 2.

3 indicates the shell or casing of the cap or plug, which is substantially cup-shaped and screw-threaded to fit in the bushing and may be provided with the ordinary washer 4 to make a close joint. The part 4 constitutes in effect a stuffing-box. The top of the casing is preferably flanged, to which is secured, by solder or otherwise, the overhanging cap 5, the periphery of which is preferably milled and extends beyond the bushing for the purpose of inserting or removing the plug. The bottom of the casing is provided with an elongated opening 6, extending from the center to one side. Seated within the bottom of the casing is the head 7 of a combined stopper and guide or U-shaped guide-pin the legs of which, 8 and 9, are substantially parallel and one of which, 8, projects from the bottom of the plug a suitable distance. The lower end of the leg 8 is provided with a recess formed by an offset or shoulder 10, while the other leg 9 is secured to or is formed by doubling the end of the leg upon itself and extending it in axial alinement with the center of the plug nearly up to the bottom of the casing. The head is preferably formed by bending the upper end of the leg 8 into a coil, which fits snugly within the casing and is bent over at right angles, so that the axis of the coil will coincide with the axis of the perforation through the bottom of the casing. The coil or head rests upon the bottom of the casing, and the space between the top of the coil and the cap is filled with suitable packing—as, for instance, small leather washers 11. Projecting through the perforation thus formed in the plug is a longitudinally movable or shifting spout 12, the upper end of which is preferably curved laterally and provided with a handhold 13, and the lower end is flaring or bell-shaped and provided with a series of recesses 14. The length of the spout is such that when in its retracted position the lower end will be adjacent to the lower end of the guide or stopper and the bell-shaped portion will fit within the recess formed thereat, so that the spout may be rotated axially; but as soon as the spout is withdrawn the leg 8 will enter one of the recesses 14 and lock the spout against rotation at any point of its extension. As soon as the spout has been extended far enough to clear the end of the leg 9 the oil may enter the spout and may be delivered where desired. As soon, however, as the spout is pushed into the can the leg 9 will enter the lower part of the spout and completely close it, and thereby prevent the escape of the oil from the can while the spout remains in its closed or retracted position.

As above described, it will be seen that the spout may be applied to any form of can, and when in its extended position the curved tip may be used to force open normally-closed oil-holes—as, for instance, those provided with a spring-pressed ball, in which there would be danger of the spout rotating axi-

ally if it were not prevented by the engagement of the notched bell-shaped portion with the guide 8. It also produces a very cleanly construction, as by making a close fit between the stopper and the spout it is impossible for the oil to escape when the spout is in its retracted position.

As the plug and spout are self-contained and the head, guide, and stopper may all be formed from a single piece of wire, the device can be manufactured very cheaply, and the bearing of the head upon the bottom of the plug will secure a very firm and substantial construction and will always insure the entrance of the stopper into the end of the spout.

Having thus described my invention, I claim—

1. In an oiler, the combination, with a can, of a perforated plug therefor, the bottom of which is flanged inward, a substantially U-shaped combined guide and stopper, the upper end of the guide portion of which is bent at an angle and is clamped upon the flange of the plug, and the stopper portion is in axial alinement with the perforation of the plug, and a longitudinally-movable spout through the plug, the inner end of which is bell-shaped and recessed to engage with the guide and prevent rotation, substantially as set forth.

2. In a combined plug and spout for oilers, the combination, with a longitudinally-perforated plug, of a longitudinally-movable spout therein, the inner end of which is bell-shaped and provided with notches, a guide projecting from the bottom of the plug, the lower end of which is curved laterally to form a recess, and a stopper extending from said lateral extension in axial alinement with said spout the recesses in the bell engaging with the guide and locking the spout against rotation at any point of its extension, substantially as set forth.

3. In a combined plug and spout for oilers, the combination, with a substantially cup-shaped casing, the bottom of which is provided with an elongated opening extending from the center to one side thereof, of a perforated cover for the casing, a longitudinally-movable spout through the casing and the cover, the inner end of which is bell-shaped and provided with recesses, a guide, the upper end of which is bent into a coil to fit in the bottom of the casing and the lower end is provided with a lateral extension, a stopper extending from said lateral projection in axial alinement with the spout nearly to the bottom of the casing and packing between the head and the cover of the casing, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM SABERT BOYD.

Witnesses:
ELLIS F. FROST,
F. D. BLACKISTONE.