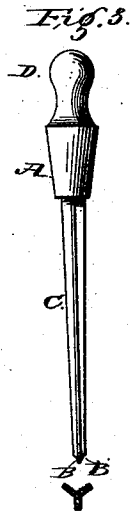
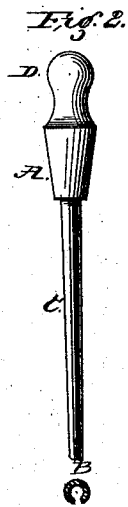
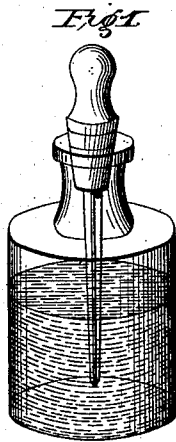


G. A. SAWYER.
Lubricating Device.

No. 168,109.

Patented Sept. 28, 1875.



Witnesses:
Thomas H. Sawyer,
W. S. Choate.

Inventor:
George A. Sawyer.

UNITED STATES PATENT OFFICE.

GEORGE A. SAWYER, OF AUGUSTA, MAINE.

IMPROVEMENT IN LUBRICATING DEVICES.

Specification forming part of Letters Patent No. **168,109**, dated September 28, 1875; application filed July 3, 1875.

To all whom it may concern:

Be it known that I, GEORGE A. SAWYER, of Augusta, Kennebec county, State of Maine, have invented certain Improvements in Oilers or Lubricating Devices, of which the following is a specification:

The object of my invention is to supply a cheap and efficient apparatus for taking the oil directly from the bottle in which it is usually sold, and applying it to machinery without the intervention of the ordinary spurt or pressure oil-cup, the use of which for light machinery, like sewing-machines, &c., is open to many objections—as, for instance, the uncertain delivery of the oil, and the waste which, in sewing-machines, is apt to overflow and soil the work.

In the drawing, Figure 1 is a perspective view of my device shown as applied to a bottle of oil. Figs. 2, 3, and 4 are views of different forms of my device, each figure shown also in section.

Similar letters of reference indicate corresponding parts.

A is the cork or stopper of the bottle, with a button or handle, D, for convenience in using. The plate or rod C, Fig. 2, is of suitable metal, and is best made of a piece of thin brass, wider at the top near the cork than at the end, the two side edges being bent toward each other, forming the groove B.

Figs. 3 and 4 show other forms of the same device. In Fig. 4 the groove is a spiral made by twisting a narrow strip of metal, and in Fig. 3 there are two or more grooves planed or stamped in a wire rod. The object, however, is the same in each—viz., to make a place in which the oil will collect in greater quantities than upon a plane surface.

It is evident that these examples do not cover all the varied forms of rods or plates which would contain and illustrate the principle involved in my invention, as herein described, be-

cause a tube would take up and retain the lubricating fluid, though in practice it would be found not to discharge it so freely as an open groove, and other substances than metallic may be substituted for those claimed by me.

When one of these grooved rods is inserted into a fluid having the consistency of oil the grooves will take up and hold a considerable quantity of the fluid, which may then be applied to any surface requiring lubrication by simply touching the point of the rod to the object, and permitting the oil to flow as long as may be necessary, and thus there need be no waste or overflow.

If the point of the rod is put into a cavity out of sight the quantity of oil discharged can still be regulated by watching the flow in the open tube, and in using this device on sewing-machines it will be found that the machine will not gum up, nor the work become soiled from the waste oil.

When the device is not in use the attached cork closes the bottle, and the apparatus makes a cheap and convenient substitute for any device hitherto used for this purpose.

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

1. A lubricating device having the metallic plate or rod C, with one or more vertical or one or more spiral grooves, B, formed upon or within it, substantially as described.

2. In a lubricating device, the combination of the stopper A with the metallic plate or rod C, having formed upon or within it one or more longitudinal or spiral grooves, B, substantially in the manner and for the purposes herein set forth.

GEORGE A. SAWYER.

Witnesses:

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I. F. PIERCE.