PATENT SPECIFICATION

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COMPLETE SPECIFICATION.

Improved Construction of Lubricator or Oil Can.

We, BING-WERKE vorm Gebr. Bing A—G, of 16, Blumenstrasse, Nurnberg, Germany, a German joint stock company, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to a lubricator or oiler of the kind in which a can or receptacle having an outlet nozzle is employed for holding the oil, and in which a spring controlled pin or needle carrying a valve is positioned in the outlet nozzle, the pin or needle in normal position projecting beyond the end of the nozzle. In normal position the spring presses the pin or needle outwards and the valve finds a seating either against the inside end of the nozzle or a seating formed in the bore of the nozzle so that in normal position the outlet is closed and oil prevented from passing. When it is desired to use the lubricator the end of the needle or pin is placed against the part to be oiled and the can pressed against same so pushing the pin or needle inwards against the spring and opening the valve and allowing the oil to pass through and out of the nozzle.

In such class of lubricator the pin or needle has been formed separate from the spring which is usually a coiled or spiral spring.

The object of this invention is to construct a lubricator or oiler of this class in an improved and simplified manner and which is particularly suitable for oiling very delicate mechanism and apparatus in which only a small drop of oil has to be applied.

According to this invention we construct the oiler from a comparatively small diameter tube provided with a screwed closure at one end and carrying at the other end a tapering nozzle attachment so that the shape is similar to a magazine pencil.

The needle-like pin carrying the valve cone is formed in one with the spring or springs from a single length of wire.

Our invention will be clearly understood from the following description aided by the annexed drawing in which an oiler constructed according to this invention is illustrated in section with the valve cone raised.

The lubricator consists of a handy tube *a*, into which is screwed a taper nozzle *b*. The tube *a* and the nozzle *b* form the oil container, which is filled with oil through the top, and is closed by a screw *c*. Inside the tube *a* and the nozzle *b* is arranged a spiral spring *d*, one end of which rests in the bore *e* of the screw *c*. whilst its other axial extension *f* carries a small valve cone *g*, which is pressed by the spring *d* against a valve seat *h*, milled inside the nozzle member *b*. The needle portion *f* of the spiral spring passes through the slightly larger bore *i* of the nozzle. When the lubricator is applied, with a gentle pressure, against a place *k* to be lubricated, the spring-controlled needle *f* is forced up, and raises the valve cone *g* from its seat *h* so that the oil is able to escape in drops, along the needle and through the bore *i* of the nozzle. Normally, the spring *d* presses the valve cone *g* against its seat *h*, thus closing the lubricator.

In order to save material, the spring *d* is not made of spiral shape throughout, but a central portion *m* is left straight.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A lubricator or oiler comprising a tube of comparatively small diameter, provided with a screwed closure at one end and carrying on the other end a taper-

ing nozzle attachment, so that the shape is similar to a magazine pencil the bore of the nozzle being adapted to be closed by a spring-controlled valve cone carried by a needle projecting through the nozzle, substantially as described with reference to the annexed drawings.

2. In a lubricator or oiler according to Claim 1, forming the needle which carries the valve cone and the spring or springs in one piece from a single length of wire, substantially as set forth.

3. The lubricator or oiler constructed, substantially as described with reference to the annexed drawing.

Dated this 31st day of March 1925.

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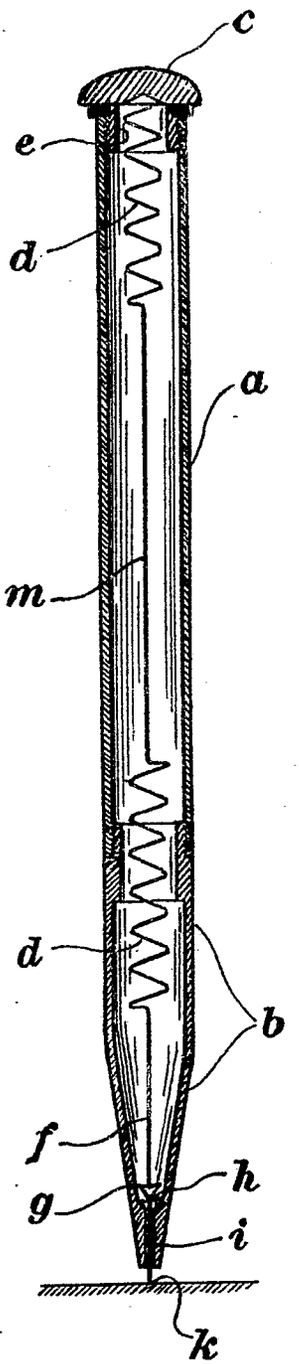

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