Aug. 31, 1926. 1,597,895

H. ILLIG

LUBRICATOR

Filed Oct. 22, 1925

Fig. 1

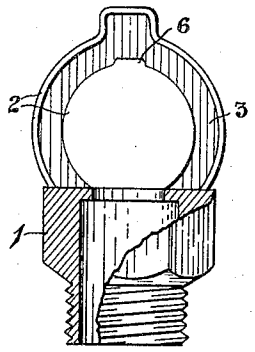


Fig. 2

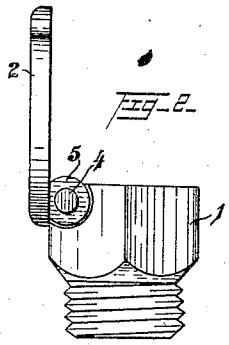


Fig. 3

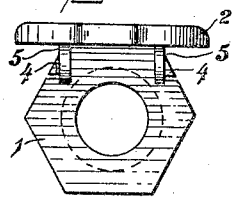


Fig. 4

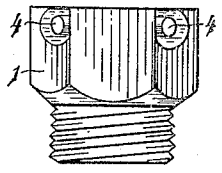


Fig. 5

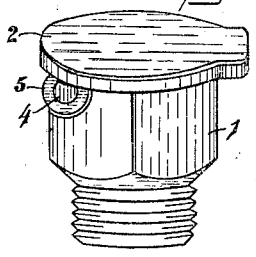


Fig. 6

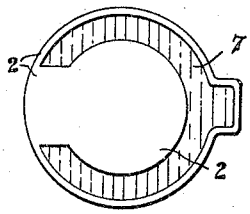


Fig. 7

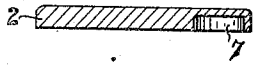


Fig. 8

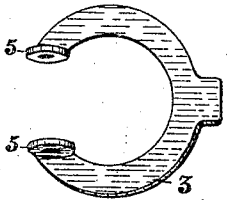


Fig. 9



INVENTOR.

Heinrich Illig

BY

ATTORNEY.

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UNITED STATES PATENT OFFICE.

HEINRICH ILLIG, OF MICHELSTADT I. ODENWALD, GERMANY, ASSIGNOR TO JOHN ELLICH, OF JERSEY CITY, NEW JERSEY.

LUBRICATOR.

Application filed October 22, 1925, Serial No. 64,106, and in Germany January 19, 1925.

My invention relates to lubricators, such as oil-cups and the like, and the object of my invention is to produce a lubricator, which at all times will be perfectly tight, so that no lubricant can escape therefrom, even tho the lubricator be mounted on moving or revolving parts.

The lubricator, according to my invention, therefore, is so constructed that no parts project into the lubricant container which might interfere with a perfect closure of the cover and that there are no openings of any kind, however small, in the wall of the container permitting the escape of the lubricant.

In the lubricator, accroding to my invention, the cover will always be held with its entire closing surface against the top of the container even after wear of the movable parts. The pivots forming the hinge or fulcrum for the cover are provided on the outside wall of the lubricant container being preferably formed from the material of said wall and being therefore integral therewith. Thus, there is no chance at all for the lubricant to escape from the container. The cover is so hinged to the latter that it will be firmly held both in the open and closed position.

On the accompanying drawing, on which I have shown, by way of example, one embodiment of my lubricator, for the purpose of illustrating my invention, Fig. 1 is a front elevation of the lubricator, partly in section and partly broken away, with the cover in open position, Fig. 2 a side elevation with the cover in the same position, Fig. 3 a top plan view likewise showing the cover in open position, Fig. 4 a rear view of the lubricant container, without the cover, Fig. 5 a perspective view of the lubricator showing the cover in closed position, Fig. 6 an underside view of the cover, Fig. 7 a central transverse section through the cover, Fig. 8 a view of the closing spring and Fig. 9 an edge view thereof.

1 is the container or cup adapted to receive the lubricant, 2 is the cover for closing the top opening of said container and 3 the spring constituting the means for hinging said cover to the container 1 and retaining it both in open and closed position.

As shown more particularly in Fig. 4, two pivots 4 are provided on the outside wall of the container 1, which pivots are in the embodiment here shown formed from the material of said wall being thus integral therewith. The spring 3 which, as shown in Figs. 8 and 9, is shaped corresponding to the contour of the cover 2, is provided with two perforated lugs or ears 5, which by the spreading of the two curved limbs of the spring are snapped over the pivots 4, so that the spring becomes hinged thereto.

On its underside, the cover 2 has a curved recess 7, Figs. 6 and 7, adapted to receive the curved spring 3, which at 6, Fig. 1, is riveted or otherwise secured to the cover, so that the spring action of the limbs of the spring will occur only at the place opposite 6, and the cover 2 will be firmly held by said spring action both in the closed position (Fig. 5) and in the open position (Figs. 1, 2 and 3). Due to the slight curvature of the limbs of the spring, as shown in Fig. 9, the spring, when the cover is raised or lowered, will exert a strong pull on the cover. In the open position of the cover, its overlapping rear portion will bear against the rear flat wall of the container as clearly shown in Fig. 3.

As the depth of the recess 7 in the underside of the cover 2 is greater than the thickness of the spring 3, the cover will close tight against the top opening of the container even after wear of the pivots 4 and ears 5, and thus, the escape of any lubricant from the container will be effectively prevented.

It is obvious that the device as shown is capable of a number of modifications without any departure from the spirit of the invention.

I claim as my invention:

1. In a lubricator, the combination with the lubricant container, of pivots provided on the outside wall of said container, a cover fitting the open top of said container, and resilient means for hinging said cover to said pivots, at the same time immovably holding said cover both in open and closed position.

2. In a lubricator, the combination with the lubricant container, of pivots provided on the outside wall of said container, a cover fitting the open top of said container, and a spring adapted to support said cover and provided with ears to be hinged to said pivots.

3. In a lubricator, the combination with

the lubricant container, of pivots provided on the outside wall of said container, a cover fitting the open top of said container and having a recess on its under-side, and a spring adapted to be received in said recess and having ears to be hinged to said pivots.

4. In a lubricator the combination with the lubricant container, of pivots provided on the outside wall of said container, a cover fitting the open top of said container and having on its underside a recess, a spring adapted to be received in said recess and having ears to be hinged to said pivots, and a means for securing said spring in said recess.

5. In a lubricator, the combination with the lubricant container, of pivots formed on the outside wall thereof integral therewith, a cover fitted to the open top of said container, and means for hinging said cover to said pivots and being so constructed as to hold said cover in open and closed position.

6. In a lubricator, the combination with the lubricant container, of two pivots formed on the outside wall of said container integral therewith, a cover fitting the open top of said container, and a spring for hinging said cover to said pivots and maintaining said cover in open and closed position.

7. In a lubricator, the combination with the lubricant container, of two pivots formed on the outside wall of said container integral therewith, a cover fitting the open top of said container, and having a recess on its underside, and a spring adapted to lie in said recess and having ears to be hinged to said pivots.

In testimony whereof I affix my signature.

HEINRICH ILLIG.