

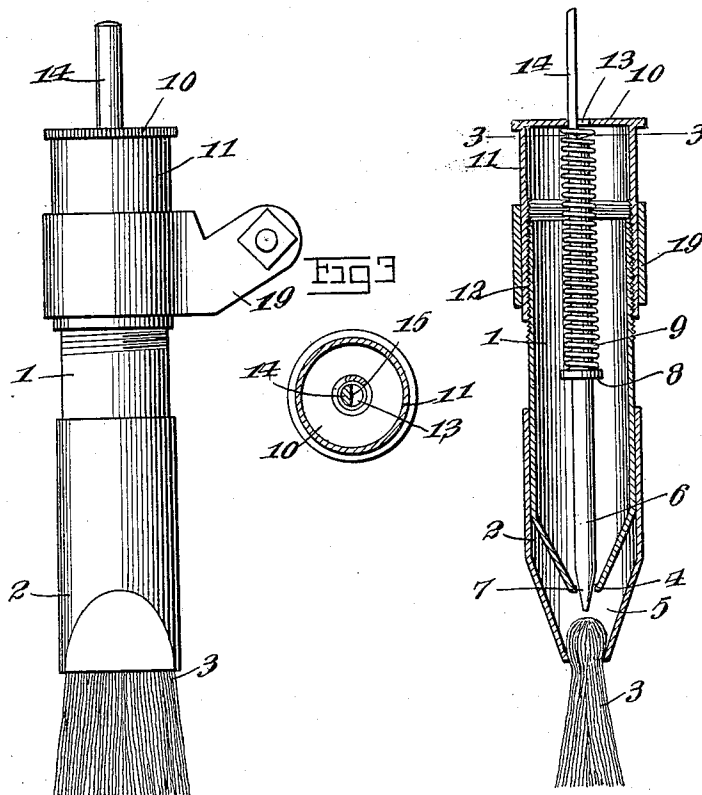
J. A. HARBISON.
LUBRICATOR.
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1,053,030.

Patented Feb. 11, 1913.

Fig 1

Fig 2



Inventor

John A. Harbison

Witnesses

W. H. Slifer

James D. O'Connell

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

JOHN ANDREW HARBISON, OF MAXWELL, CALIFORNIA.

LUBRICATOR.

1,053,030.

Specification of Letters Patent.

Patented Feb. 11, 1913.

Application filed October 25, 1911. Serial No. 656,565.

To all whom it may concern:

Be it known that I, JOHN ANDREW HARBISON, a citizen of the United States, residing at Maxwell, in the county of Colusa and State of California, have invented new and useful Improvements in Lubricators, of which the following is a specification.

This invention relates to lubricators and particularly to one designed for the lubrication of the driving chain of a bicycle or chains, or the intermeshing gearings of any well known form of machine, the object of the invention being to provide a lubricator that can be readily applied to a bicycle and positioned thereon so that the lubricant, through vibrations of the machine, will be positively spread upon the chain.

Another object of the invention is to provide means for effecting any desired discharge of the lubricant from the lubricant container.

In the drawing, forming a portion of this specification and in which like numerals of reference indicate similar parts in the several views:—Figure 1 is a side view of the lubricator. Fig. 2 is a vertical section there-through. Fig. 3 is a section on line 3—3 of Fig. 2 showing the lubricant container and the valve stem associated relatively to permit the container to be filled with the lubricant.

In the form of the invention shown in Figs. 1 to 3, inclusive, of the drawing, I provide the telescopic lubricant container and brush head 1 and 2 respectively, each of which being preferably of cylindrical configuration, and as shown, the brush head 2 has operatively arranged therein the bristles 3. The bristles may be constructed of hair, wire or any suitable well known material which may be best adapted for the purpose intended. The lower end of the lubricant container 1 is contracted, being preferably of substantially conical configuration. At the small end of the conical portion of the container 1 is formed a discharge passage 4 by means of which a lubricant from the container 1 can be discharged directly upon the bristles 3 or in the space 5 defined by the lower end of the lubricant container 1 and the inner end of the bristles 3. The space 5 may be varied in size so that different quantities of the lubricant can be stored therein as the occasion may require. To vary the capacity of the space 5 the

brush head 2 and the lubricant container 1 may be adjusted relatively.

A valve 6 extends into the lubricant container 1 and is centrally disposed therein. This valve is preferably in form of a rod which is pointed, at 7, so as to effectively seat against the walls of the discharge opening 4. The valve is provided intermediate of its ends with a stop 8, against which one end of a helical spring 9 is seated. The opposite end of the spring bears against the head 10 of the adjustable cap member 11. This cap member is threadedly connected, at 12, with the upper end of the lubricant container and any desired adjustment of the cap can be made to regulate the proper tension of the spring 9. The head 10 of the cap member is provided with a central aperture 13 in which the valve is slidably mounted. The valve is provided with an extension 14 which is normally disposed above the plane of the opening 13. When it is desired to fill the container 1 with a lubricant the cap member 11 and the lubricant container 11 are adjusted relatively so that the extension 14 of the valve will be disposed in the opening 13 of said cap member. The extension 14 is provided with a flat face 15 which may be disposed in proper spaced relation to the walls of the opening 13 to allow for the introduction therinto of a lubricant filler (not shown).

As hereinbefore stated, the brush head 2 and the lubricant container 1 may be adjusted relatively so that the space 5 can be varied and thereby act as a well to contain a quantity of the lubricant so that the latter may be constantly applied to the bristles 3 of the brush. When it is desired to use the lubricator as just described, the cap member 11 is adjusted on the lubricant container 1 so as to prevent the valve 6 from moving only under intense vibrations. Ordinarily it is intended that the lubricator be used on a machine such as a bicycle wherein the vibrations of the machine will be sufficient to cause an alternate seating and unseating of the valve.

I claim:

A lubricator comprising a container for the lubricant, said container being provided with a conical lower end having a discharge passage and an exteriorly threaded upper end, a brush head slidably mounted on the lower end of said container and provided

with a conical lower end, a portion of said
head extending below the conical lower end
of the container defining between the outer
walls of the conical lower end of the con-
5 tainer and the inner walls of the conical
lower end of the brush head an auxiliary lu-
bricant storing space, a lubricant supporting
element carried by the head and a valve ex-

tending into the container and adapted to
be operated by the vibrations of a machine. 10

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

JOHN ANDREW HARBISON.

Witnesses:

C. LAUSTEN,
BENJ. SMITH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
