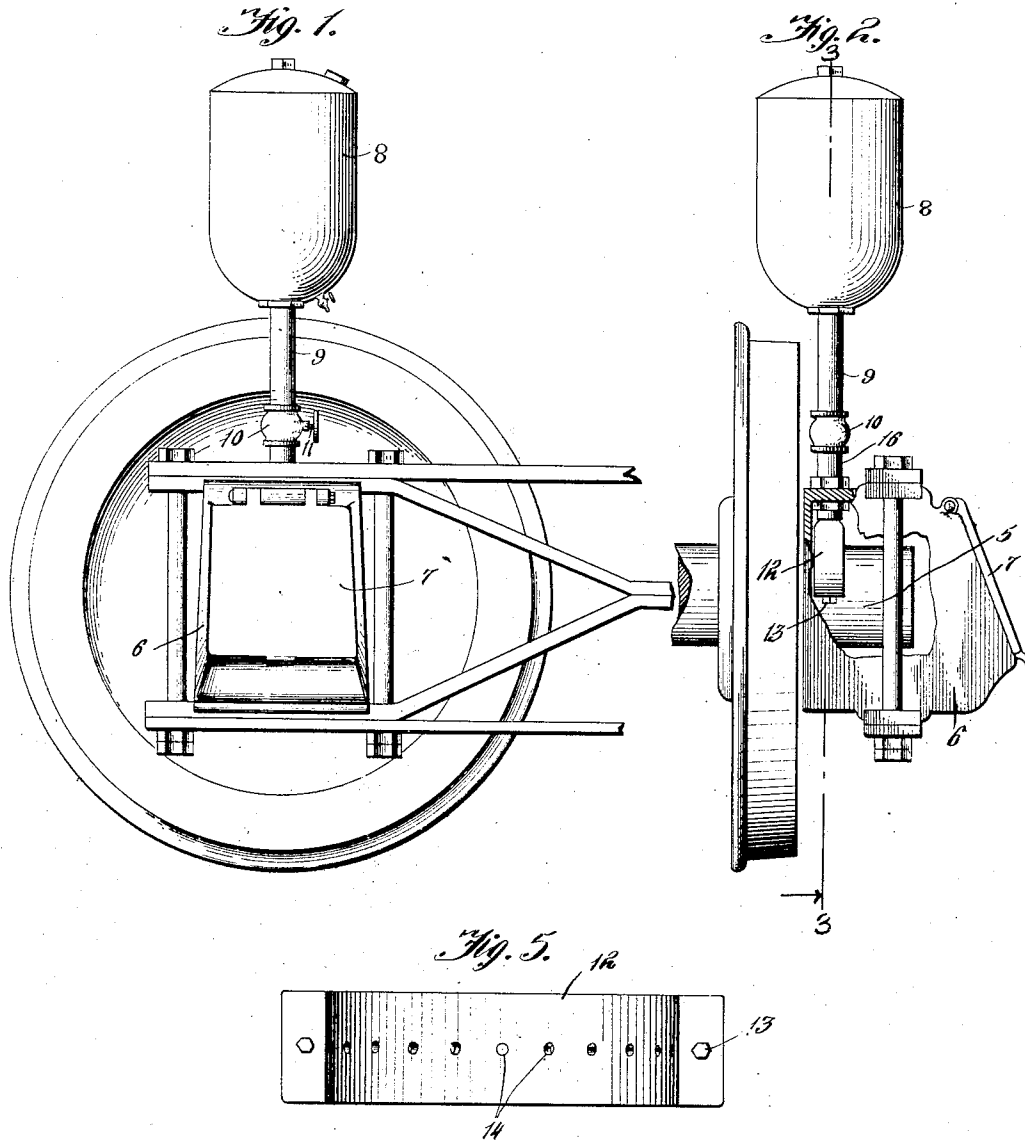


C. H. ALEXANDER,
 JOURNAL BOX OIL CUP.
 APPLICATION FILED OCT. 12, 1910.

1,039,629.

Patented Sept. 24, 1912.

2 SHEETS—SHEET 1.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 5.

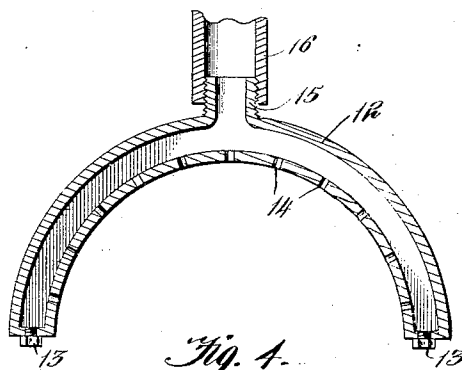
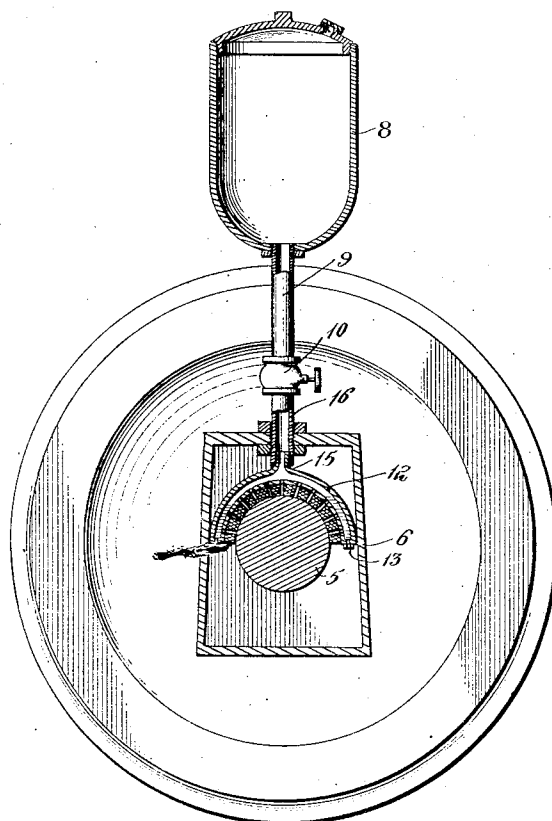


Fig. 4.

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UNITED STATES PATENT OFFICE.

COLWELL HYMAN ALEXANDER, OF BEAUMONT, TEXAS.

JOURNAL-BOX OIL-CUP.

1,039,629.

Specification of Letters Patent.

Patented Sept. 24, 1912.

Application filed October 12, 1910. Serial No. 586,781.

To all whom it may concern:

Be it known that I, COLWELL H. ALEXANDER, a citizen of the United States, residing at Beaumont, in the county of Jefferson and State of Texas, have invented new and useful Improvements in Journal-Box Oil-Cups, of which the following is a specification.

This invention relates to journal lubricators and more particularly to the class of journal box oil cups.

The primary object of the invention is the provision of a lubricator of this character in which lubricant will be supplied to the journal within a journal box without requiring the use of waste or other packing substances therein.

Another object of the invention is the provision of a lubricator of this character in which a predetermined amount of oil will be uniformly fed to the journal within the journal box so as to obviate the congealing of oil contained within the journal box yet enabling the said oil to be freely fed about a greater portion of the journal in the journal box.

A still further object of the invention is the provision of an oil cup for journal boxes in which the spray head for delivering the oil to the journal may be readily and easily cleansed so as to prevent the clogging thereof and that will supply a uniform quantity of oil to the journal within the journal box.

To the above purposes, and such others as may appear from the following description, the invention consists in certain peculiar and novel features of construction and arrangement of parts as hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a fragmentary side elevation of a car journal box with the invention applied thereto. Fig. 2 is an end elevation, the journal box being partly broken away. Fig. 3 is a vertical transverse sectional view on the line 3—3 of Fig. 2. Fig. 4 is an enlarged vertical sectional view through the spray head or sector. Fig. 5 is a bottom plan view of the sector.

Similar reference characters are employed to designate corresponding parts in the several views.

Referring to the accompanying drawings by numerals, 5 designates the journal or car

axle and 6 the journal box therefor, the said box being provided with the usual hinged lid 7 so that access may be had to the interior of the box for the cleaning of the journal end of the box as occasion may require. This journal or axle 5 is mounted in the box for rotation in the usual well-known manner.

Mounted upon the box is the lubricator or oil cup comprising a font or reservoir 8 from the bottom of which leads an oil supply pipe or tube 9, the latter being connected with a valve casing 10 in which is arranged the ordinary cut off valve 11 to control or regulate the supply of oil passing through the pipe or tube 9 from the reservoir into the journal box in a manner as will be hereinafter more fully described. Arranged within the journal box 6 is a spray head or hollow sector 12, the ends of which are closed by means of detachable plugs 13 threaded therein. The spray head or sector 12 is adapted to encircle the journal or axle 5 for substantially one-half of its cross sectional diameter and is provided with discharge apertures or orifices 14 at its inner periphery for delivering oil from the said spray head onto the journal or axle. Formed medially on the head or sector 12 is an externally threaded boss 15, the latter being in threaded engagement with one end of a short pipe or tube 16 the same being passed upwardly through the top of the journal box 6 and at its opposite end is threaded in the valve casing 10 whereby oil passing through the tube or pipe 9 from the reservoir will be delivered into the spray head or sector 12 whence it will be discharged onto the journal or axle 5 within the journal box.

It will be noted that the spray head or sector 12 will discharge oil from the reservoir 8 onto the journal in a uniform manner and that there will be no possibility of the congealing of the oil within the journal box. Also this spray head or sector 12 obviates the necessity of the employment of waste or packing within the journal box as is ordinarily used for lubricating the journal. The supply of oil from the reservoir to the spray head or sector 12 will be controlled and regulated by the cut off valve 11. Thus, it will be seen that the flow of oil into the journal box may be increased or decreased at will.

Having thus described my invention, I claim:—

The combination with a car axle box having an aperture in its top, of an oiling attachment comprising a vertical feed pipe having internal and external threads on its inner end and passed through the perforation in the top of said box, nuts engaging the external threads and working against the inner and outer faces of the top of the box for the fastening of the feed pipe thereon, a feed cup carried at the outer end of the said pipe, a hollow sector-shaped spraying head having discharge orifices at

intervals in the inner wall thereof, said head having an upwardly extending boss formed medially thereof, and detachably engaging the internal threads of the said feed pipe, the downwardly extending ends of said head being provided with threaded apertures, and plugs removably fitted in said apertures.

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

COLWELL HYMAN ALEXANDER.

Witnesses:

W. H. BURGESS,

C. S. EUGENE, Jr.