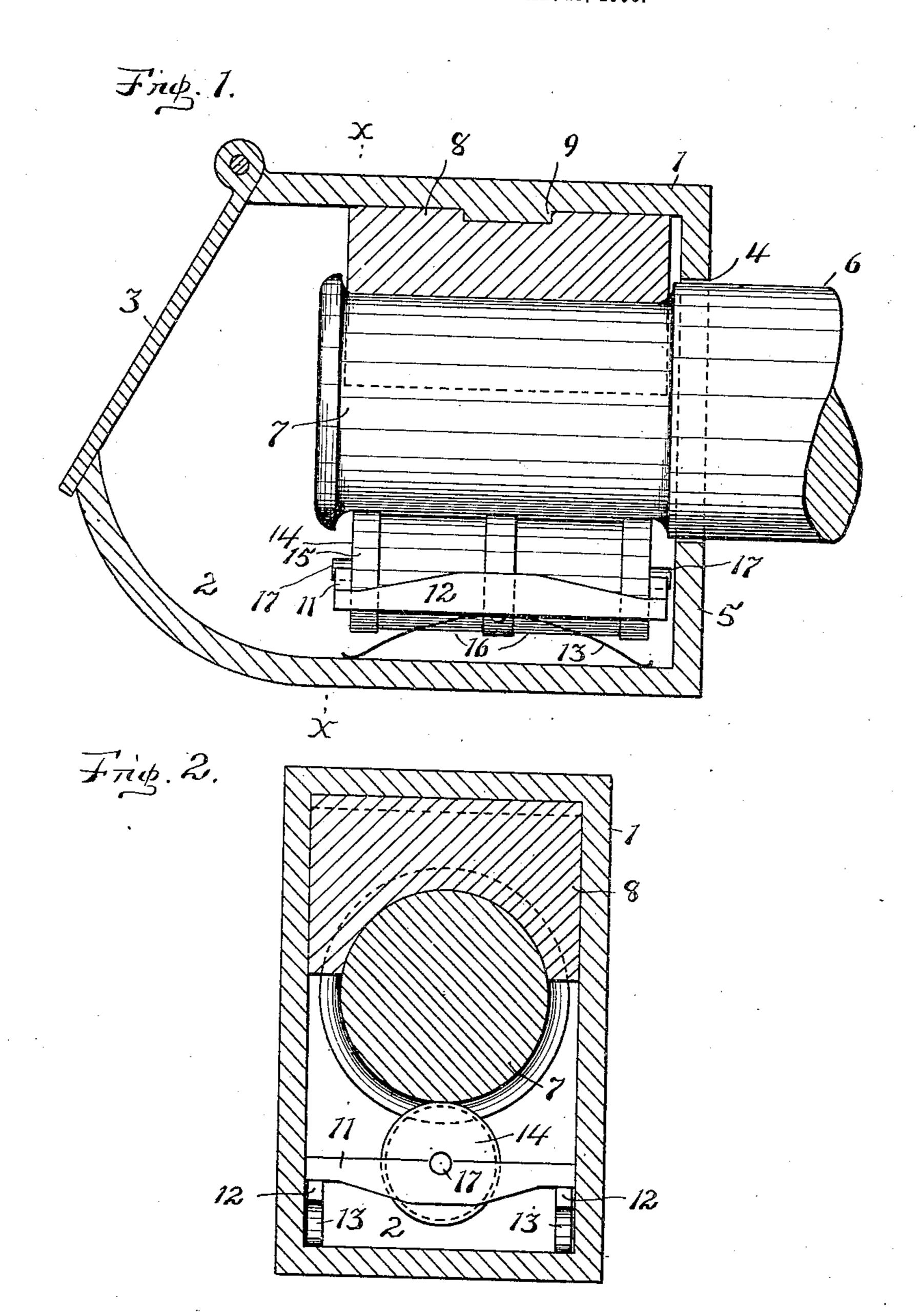
J. W. PEPPLE. JOURNAL LUBRICATOR. APPLICATION FILED JAN. 15, 1906.



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JOHN W. PEPPLE, OF HILLSBORO, TEXAS, ASSIGNOR TO THE INTER-NATIONAL LUBRICATOR COMPANY, A CORPORATION OF TEXAS.

JOURNAL-LUBRICATOR.

No. 835,319.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, John W. Pepple, a citizen of the United States, residing at Hillsboro, in the county of Hill, in the State of 5 Texas, have invented certain new and useful Improvements in Journal-Lubricators; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to ro which it appertains to make and use the same, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in 15 journal-lubricators specially designed and adapted for the lubrication of car-axle journals.

It is well known that under present methods of lubrication there is a very large per-20 centage of waste, particularly in the lubrication of car-axle journals and analogous uses, especially where such absorbent fibrous material as ordinary "waste" is employed, since loss of the lubricant occurs both by leakage 25 at the ends of the journal and by its absorption by the waste packing employed.

The object, therefore, of my present invention is to provide a cheap, simple, efficient, and reliable lubricating means for journals of 30 all kinds, and particularly for car-axle journals adapted to distribute the lubricant with absolute uniformity and without any appreciable waste.

My invention consists of a lubricant-dis-35 tributing roller of special construction, yieldingly mounted in a journal-box having an oil-compartment in the bottom thereof, the said distributing-roller having peripheral oilconveying recesses or compartments and be-40 ing so arranged in coöperative relation to the journal to be lubricated as to feed and distribute the oil in a reliable, economical, and uniform manner without appreciable waste.

The novel feature of my invention resides 45 in the form and coöperative arrangement of the lubricant-distributing roller, by means of which economy and uniform distribution is secured and its derangement in use is avoided, and also in the means for yieldingly support-50 ing the same.

The object of my invention is accomplished and secured by means of the mechanism illustrated in the accompanying draw-

ings, in which—

Figure 1 is a vertical longitudinal central 55 section of a car-axle journal-box of common form, showing the coöperative relation between my invention and the journal-surface to be lubricated and also showing the manner of yieldingly mounting my distributing- 60 roller, the bearing-block being also shown in vertical section. Fig. 2 is a cross-section of the same taken on the line x x of Fig. 1 and looking toward the right.

Similar reference-numerals indicate like 65

parts throughout both views.

My invention, as shown in Fig. 1, is removably mounted in a Master Car-Builders' standard journal-box 1 of common and wellknown construction, preferably of metal and 70 provided with a proper oil-compartment 2 and a hinged lid 3, though the mere form or construction of the journal-box is obviously immaterial. In a suitable lateral opening 4 in the inner side 5 of the journal-box 1 is ro- 75 tatably mounted the car-axle 6 of common form, provided with the usual or other proper journal 7, and having the common or other proper bearing-block 8 in the usual relation, and preferably recessed on its upper face to 80 form a holding engagement with the corresponding lug 9 on the adjacent inner face of the journal-box to prevent any longitudinal displacement of this block in use. On the bottom of the journal-box adjacent to its in- 85 ner end in proper relation to the journal 7 is arranged in any proper manner a rectangular supporting-frame, whose ends 11 and sides 12 are of any proper contour, dimensions, and material and are preferably integral, or 90 made in one supporting-casting. This frame is fixed upon any suitable supporting-springs of proper strength and of any desired form, preferably consisting of a pair of flat springs 13, rigidly fixed to the lower face of the sides 95 12. These springs are of proper strength and tension to keep the surmounted lubricantfeeding roller firmly pressed into contact with the lower face of the journal 7, as shown in

The lubricating-roller 14, of proper dimensions and material, preferably of metal, has a plurality, preferably three, peripheral bearing-surfaces 15, adapted to be firmly pressed

Fig. 1.

at all times in contact with the surface of the axle-journal by means of the springs 13, as shown in Fig. 1. This roller 14 is also provided with a series of recessed peripheral faces 16, which are at all times out of contact with the adjacent journal-surface, but in operative proximity thereto, as shown, and adapted to continuously feed the lubricant to the journal in use. The lubricating-roller 14 has at its opposite ends concentric trunnions 17, which are rotatably mounted in suitable bearings in the upper face of the ends 11 of the supporting-frame and preferably mid-

way of their ends, Fig. 2.

The operation and manner of employing my invention is obvious, and briefly stated is as follows: A proper quantity of lubricatingoil is placed within the journal-box 1, preferably enough to partially submerge the lubri-20 cating-roller, but not enough to leak out through the opening 4 in use. The rotation of the axle-journal 6 will of course oppositely rotate the lubricating-roller, which will continuously carry upward the lubricant on the 25 recessed portions 16 thereof and constantly deposit it upon the adjacent lower surface of the journal 7, from which it will be equally and uniformly distributed by the revolution of the axle-journal in a well-understood man-30 ner.

By yieldingly mounting the lubricatingroller upon the supporting-springs 13 the danger of the weight of the car being accidentally thrown upon the roller-bearing, and thereby deranging the same, is obviated, and at the same time the roller is firmly pressed at all times in use against the lower face of the

journal 7.

It is obvious that by the use of my invention there is no appreciable waste of the lubricating-oil. It is also evident that my invention can readily be adapted for use upon

many other forms of journals and in numerous other situations.

Having thus described my invention and 45 the manner of employing the same, what I desire to secure by Letters Patent is—

A journal-lubricating means comprising the combination of a supporting-frame formed of a pair of side and a pair of end bars, each of 50 said end bars having its top edge cut away approximately centrally thereof in a semicylindrical manner, a bow-shaped spring bearing against the lower face of each of the side bars at the center thereof, means extending 55 through the springs at their centers and engaging in the bottom edge of the side bars for securing the springs to said side bars, said springs adapted to have their free ends rest upon the bottom of a journal-box for yield- 60 ingly supporting the frame, a roller provided at each end with a journal, said roller arranged in said frame and having the journal thereof engaging in the semicylindrical cutaway portions of the end bars of the frame, 65 thereby rotatably supporting said roller, said roller adapted to be mounted in coöperative relation with respect to the lower face of the journal to be lubricated, and said roller at each end thereof provided with a periph- 7° eral bearing-surface and approximately centrally thereof with a peripheral bearing-surface forming thereby a recess between each pair of bearing-surfaces, said peripheral bearing-surfaces in normal contact with the jour- 75 nal to be lubricated.

Signed by me at Hillsboro, county of Hill, and State of Texas, this 10th day of January,

A. D. 1906.

JOHN W. PEPPLE.

Witnesses:
C. M. Brooks,
Wiley M. Fain.