

UNITED STATES PATENT OFFICE.

JOSEPH SCHANAMEN AND WILLIAM J. DAVIS, OF PITTSBURG,
PENNSYLVANIA.

LUBRICATING DEVICE FOR RAILWAY-CARS.

SPECIFICATION forming part of Letters Patent No. 743,934, dated November 10, 1903.

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To all whom it may concern:

Be it known that we, JOSEPH SCHANAMEN and WILLIAM J. DAVIS, citizens of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Lubricating Devices for Railway-Cars, of which improvement the following is a specification.

This invention relates to an improved device for lubricating the journals of railway-cars; and it consists in certain details of construction and combination of parts, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a side elevation of a portion of a railway-car, the same being provided with the apparatus for lubricating the journals of the car which are constructed and arranged in accordance with our invention. Fig. 2 is a plan view of the same, having the car-body removed therefrom. Fig. 3 is an enlarged side elevation of one of the car-journals, a part of which is shown in section and having connected thereto a disk crank for the purpose of operating the several moving parts of our device.

To put our invention into practice, and thereby provide a device whereby the journals of a railway-car may be constantly lubricated during the movement of the car, we attach to one of the journals 3, by means of a threaded shaft 4, a crank-disk 5, having a means 6 for attaching a connecting-rod 7 thereto. Attached beneath the car-body 1 are two pump-cylinders 14, each of which is fitted with pistons 15 and joined or connected to a single piston-rod 13. This rod 13 is loosely connected to a disk crank 11, attached to a shaft 9, mounted in suitable bearings 10, and the said shaft fitted at its opposite end with another disk crank 8, which is connected to the connecting-rod 7 above mentioned. By means of the above-described mechanism the pistons 15 are given a back-and-forward movement in their cylinders when the car 1 is in motion.

Attached beneath the car-body 1 in a suitable position is a tank 18, capable of containing a quantity of lubricating fluid, fitted with an indicator 19 and means 20 for filling the same. This tank 18 is connected by tubes 20

to each of the cylinders 14, whereby a constant supply of lubricating fluid may be delivered to the said cylinders by the suction of the pistons 15, and the other ends of these cylinders 14 are connected to each of the several journals 3 of the car 1, the said connections being formed by suitable tubing 16 and fittings 17, as will be seen by reference to Fig. 2 of the drawings.

In operation the tank 18 is filled with a suitable lubricating fluid, and when the car 1 is in motion the rotary movement of the disk 5 will operate the pumps 14, drawing a certain quantity of the said lubricant from the tanks and forcing the same through the pipes 16 and their connections 17 to the different journals of the car, as is obvious.

It is apparent that various slight modifications and changes may be made in the details of construction without departing from the spirit of the invention. Therefore we do not wish to confine ourselves to the exact construction shown and described.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

A lubricating device for wheels comprising, in combination with the truck of a car, an oil-supply tank, oil-pumps carried by the truck, pipes connecting said pumps with the oil-tank, an axle mounted in suitable bearings, a screw fitted in a threaded aperture in the ends of said axle, a disk fixed to said screw and rotating with the axle, a crank-pin on said disk, a shaft journaled in suitable bearings secured to the platform of the truck, a disk on one end of said shaft, pitman connections between said disks, a forked rod connected to the pistons of said pumps, pivotal link connections between said forked rod and shaft, and pipes leading from said pumps to the bearings of the axle, as set forth.

In testimony whereof we have hereunto signed our names in the presence of two subscribing witnesses.

JOSEPH SCHANAMEN.
WILLIAM J. DAVIS.

In presence of—

H. J. LEVIS,
JOHN GROETZINGER.