

(No Model.)

H. B. SPENCER.
CAR AXLE BOX.

No. 473,529.

Patented Apr. 26, 1892.

Fig. 1.

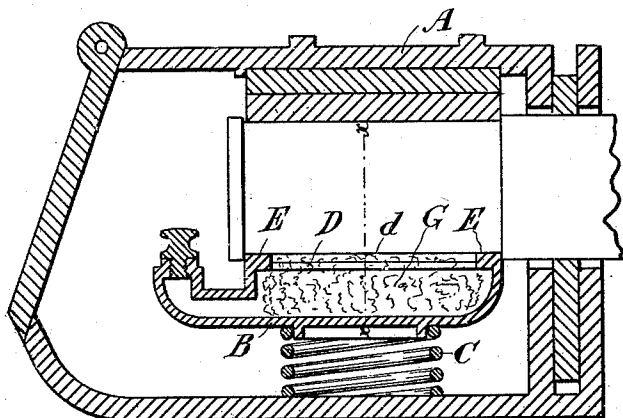


Fig. 2.

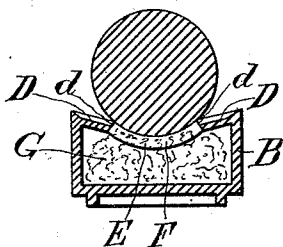
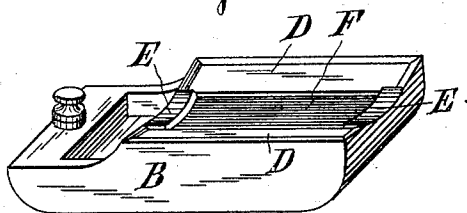


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY B. SPENCER, OF OTTAWA, CANADA, ASSIGNOR TO THE EDWARD
BEST CAR AXLE BOX AND LUBRICATOR COMPANY, OF SAME PLACE.

CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 473,529, dated April 26, 1892.

* Application filed December 7, 1891. Serial No. 414,260. (No model.)

To all whom it may concern:

Be it known that I, HENRY BUSH SPENCER, a citizen of Canada, residing in the city of Ottawa, in the county of Carleton, in the Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Car-Axle Boxes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in the oil-vessels of car-axle boxes and is essentially an improvement on the United States Patent No. 437,375, dated September 30, 1890, in which the oil-vessel is provided with a removable top, through perforations in which the lubricant is drawn by suction.

It has been found in practice that unless the axle is specially turned or the upper concave surface of the removable top made to fit exactly the axle the air gets in and prevents the suction. Thus each oil-vessel must be adapted to fit its own particular axle, and they are therefore not interchangeable. Thus a great expense is incurred in fitting the vessels, and should one be misplaced an imperfectly-lubricated axle is the result.

The object of my invention is to obviate this imperfect lubrication and cheapen the cost of manufacture. I attain this by dispensing entirely with the removable top and in place thereof leaving an open space in the center of the vessel, through which the lubricant is brought in contact with the axle by means of cotton waste. Raised bearing-surfaces are provided and inclined dished wings return any surplus oil into the vessel.

Referring to the drawings, Figure 1 is a sec-

tion through an axle-box fitted with my improved device. Fig. 2 is a transverse section on line $x x$, Fig. 1. Fig. 3 is a perspective view of the oil-vessel.

The axle-box A may be of any suitable design. B is the oil-vessel, held in contact with the axle by the spring C. The oil-vessel B is provided with inclined dished side wings D. These wings extend from the upper edge of each side of the box and are inclined toward the center. On each end of the box are raised concave bearing-surfaces E, adapted to bear against the under side of the axle. It will be seen on reference to Fig. 2 that the raised bearing-surfaces permit of a space d between the edges of the side wings and the axle, permitting the axle to take the oil up to the bushing and also permitting the surplus oil to run back. The opening or space F between the two wings D allows plenty of room for the contact of the saturated waste G and the axle. It will be seen from the construction that this oil-vessel may be used with any axle without any special fitting, and also, being cast in one piece, the cost of production is considerably lessened.

What I claim as my invention is—

The combination, with a spring-supported removable oil-vessel adapted to contain cotton waste, provided with the space F, through which the waste comes in contact with the axle, of the raised bearings E, substantially as and for the purpose set forth.

Signed at Ottawa this 18th day of November, 1891.

H. B. SPENCER.

In presence of—
WM. PREUTER,
J. P. KELLY.