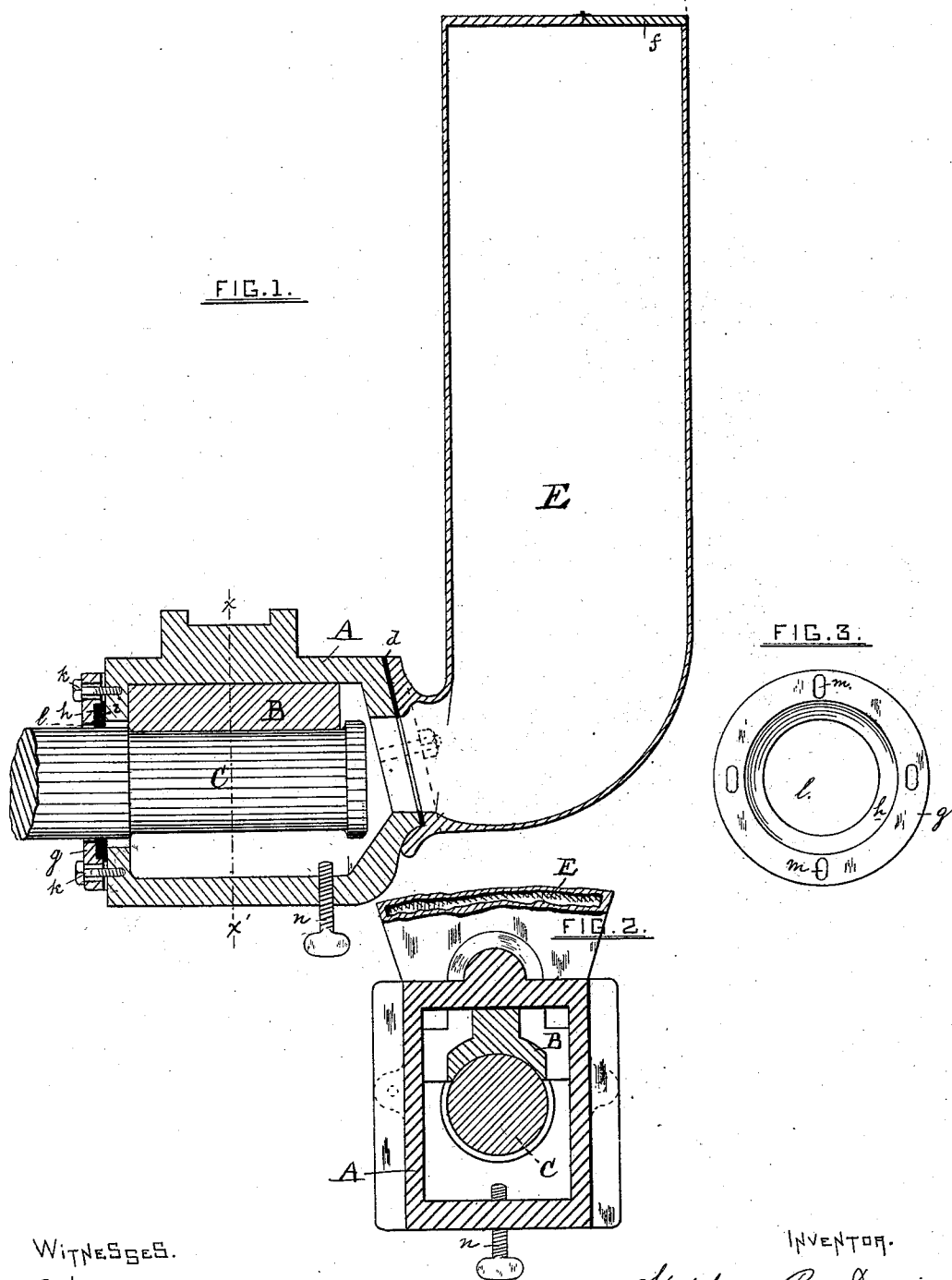


(No Model.)

S. R. DYER.  
CAR AXLE BOX.

No. 273,484.

Patented Mar. 6, 1883.



WITNESSES.

P. J. Timney.  
Alley Mahon

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# UNITED STATES PATENT OFFICE.

STEPHEN R. DYER, OF NEW ORLEANS, LOUISIANA.

## CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 273,484, dated March 6, 1883.

Application filed August 7, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, STEPHEN R. DYER, a resident of the city of New Orleans, parish of Orleans, and State of Louisiana, have invented a certain new and useful Improvement in Car-Axle Boxes; and I do hereby declare the following to be a full, clear, and correct description of the same, reference being had to the annexed drawings, making a part of this specification.

This invention relates to a car-axle box having at one end thereof a communicating receptacle for holding water or other cooling-liquid or lubricating material, and at the other end of same a vertically-adjustable recessed washer with intervening gum or other water-tight packing.

On the drawings, Figure 1 is a vertical longitudinal section of an ordinary car-axle box with my improvements thereto attached. Fig. 2 is a vertical cross-section of same through the line  $x x'$  of Fig. 1, and Fig. 3 shows the inner side of the adjustable washer.

On the drawings, the letter A designates the axle-box proper. B is the brass or journal-bearing thereof, and C the journal of a car-axle. At that end of the box to which the cover is usually affixed I apply a water-tight gasket,  $d$ , over which I bolt or otherwise secure a receptacle, E, having a cover at the top thereof, as shown at  $f$ , the raising of which permits of the introduction of the lubricant. To exclude dust as well as to prevent the escape and consequent loss of the lubricant, a washer,  $g$ , having an annular recess,  $h$ , for the

reception of gum or other packing  $i$ , is secured over the opposite end of the box by means of bolts or studs  $k$ , the tightening of which causes the packing to fit more closely around the axle, thereby securing the desired result. In order that the washer may have an even bearing around the axle, the hole  $l$  in the center thereof is made somewhat larger in diameter than the said axle, and the bolt-holes  $m$  are vertically elongated, as shown in Fig. 3, which permits of the said washer being raised or lowered according to the thickness of the brass or journal-bearing B. In the bottom of the box is fitted a screw,  $n$ , the unscrewing of which permits of the withdrawal of the lubricant and dirt contained therein.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the car-axle box A, bolts  $k$ , and packing  $i$ , of a washer,  $g$ , having annular recess  $h$  and vertical elongated holes  $m$ , as described, and for the purpose set forth.

2. In combination with the car-axle box A, bearing B, and axle having journal C, the receptacle E, washer  $g$ , and packing  $i$ , all constructed and arranged as and for the purpose set forth.

In testimony whereof I hereunto sign my name.

STEPHEN R. DYER.

In presence of—

P. J. FINNEY,  
J. C. HUBBELL.