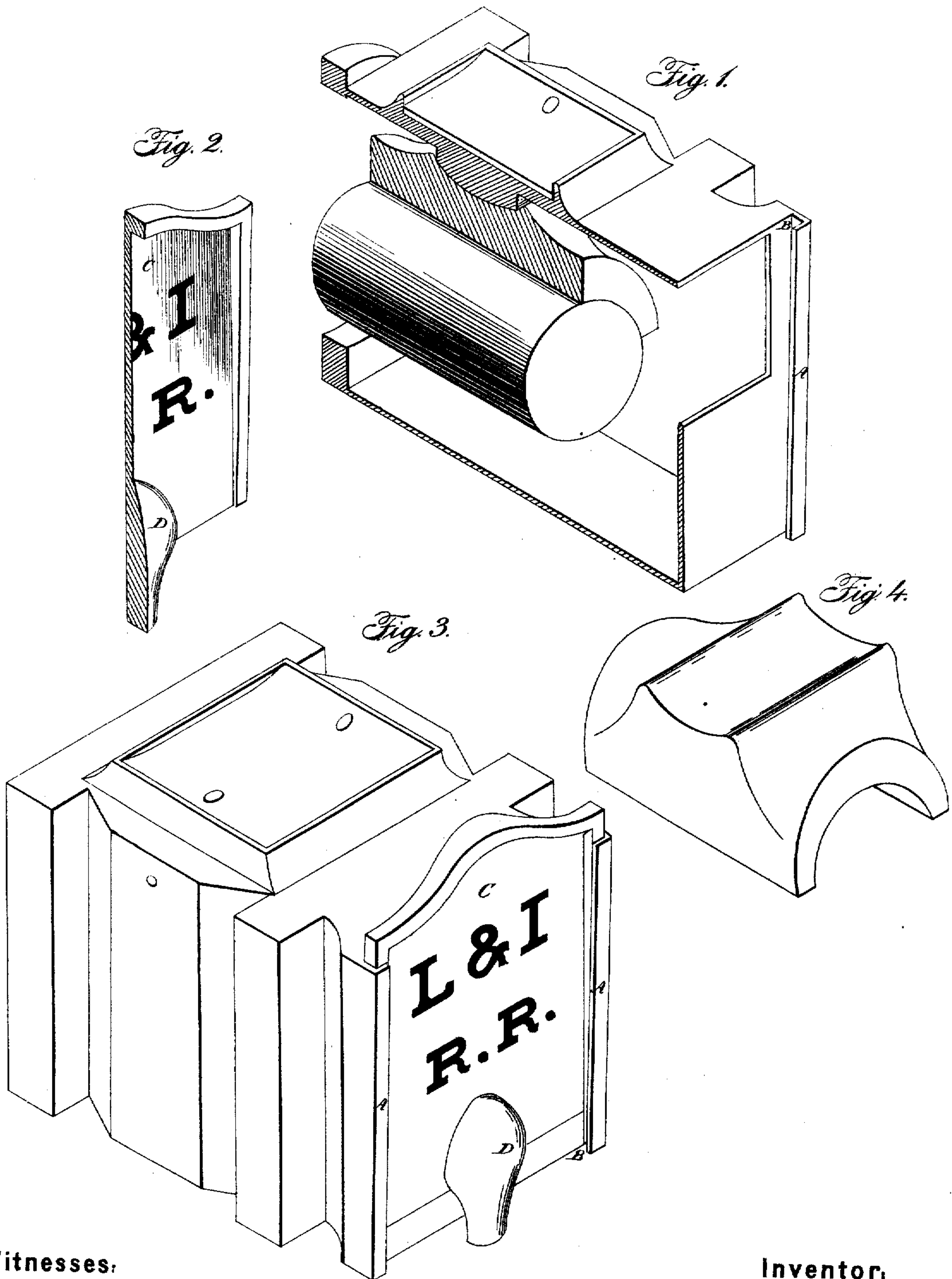


J. L. VAUCLAIN.

Car-Axle Box.

No. } 1,799. {
 } 32,803 {

Patented July 9, 1861.



Witnesses:

Francis Melloward
J. T. Melcher

Inventor:

James L. Vauclean
per Knight & Bratt

UNITED STATES PATENT OFFICE.

JAMES L. VAUCLAIN, OF LA FAYETTE, INDIANA.

CAR-AXLE BOX.

Specification of Letters Patent No. 32,803, dated July 9, 1861.

To all whom it may concern:

Be it known that I, JAMES L. VAUCLAIN, of La Fayette, Tippecanoe county, State of Indiana, have invented a new and useful
5 Improvement in Car-Axle Boxes; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.
10 My improvement relates to the cap or cover of the grease or axle box of a railroad car. These covers have to be frequently removed for greasing and inspection of the axle journals a tedious operation when time
15 is invaluable, several nuts having commonly to be unscrewed, and where, as sometimes occurs these nuts become jammed or rusted on, the parts are broken in the act of removal and the box rendered useless. I remove these liabilities, simplify the box and
20 greatly expedite the opening and closing of the same by providing in the box front a pair of tapering grooves which receive a wedge formed cap.
25 In the accompanying drawings Figure 1 is an axial section of my box. Fig. 2 is a

similar section of the cap. Fig. 3 is a perspective external view of the box. Fig. 4 is a perspective view of the journal brass.

A, A' are two lips or flanges one to each 30 of the front vertical edges of the box. The grooves B inside of these flanges narrow toward their lower ends so as to receive and retain the edges of a wedge formed cap C which is inserted from above. The jarring 35 of the car, so far from dislodging this cap, tends but to make it more secure. A heavy protuberance or knot D which depends from the bottom edge of the cap enables the dislodgment of the cap by the blow of a ham- 40 mer without danger of fracture.

I claim as new and of my invention—

The provision of a wedge formed cap C D and tapering grooves B to a car axle box for the objects specified. 45

In testimony of which invention, I hereunto set my hand.

JAMES L. VAUCLAIN.

Witnesses:

GEO. H. KNIGHT,
FRANCIS MILLWARD.