

D. MUZZEY.  
Car-Axle Boxes.

No. 145,004.

Patented Nov. 25, 1873.

Fig. 1.

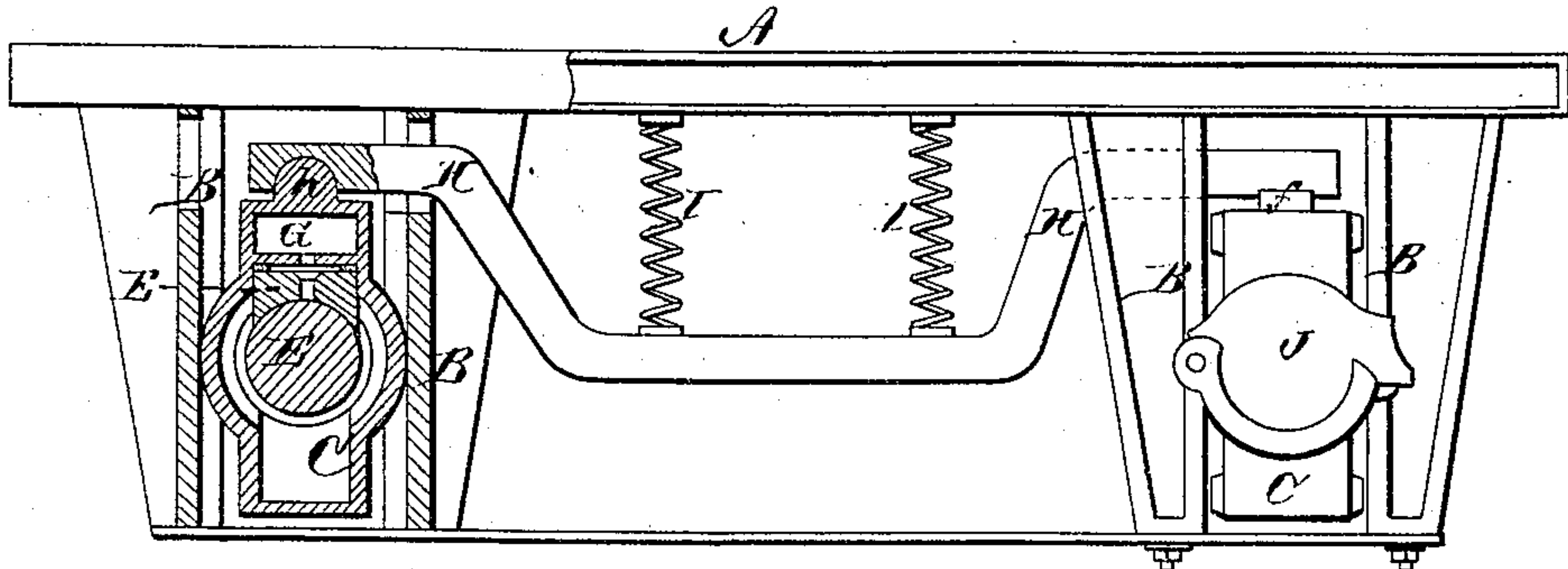


Fig. 2.

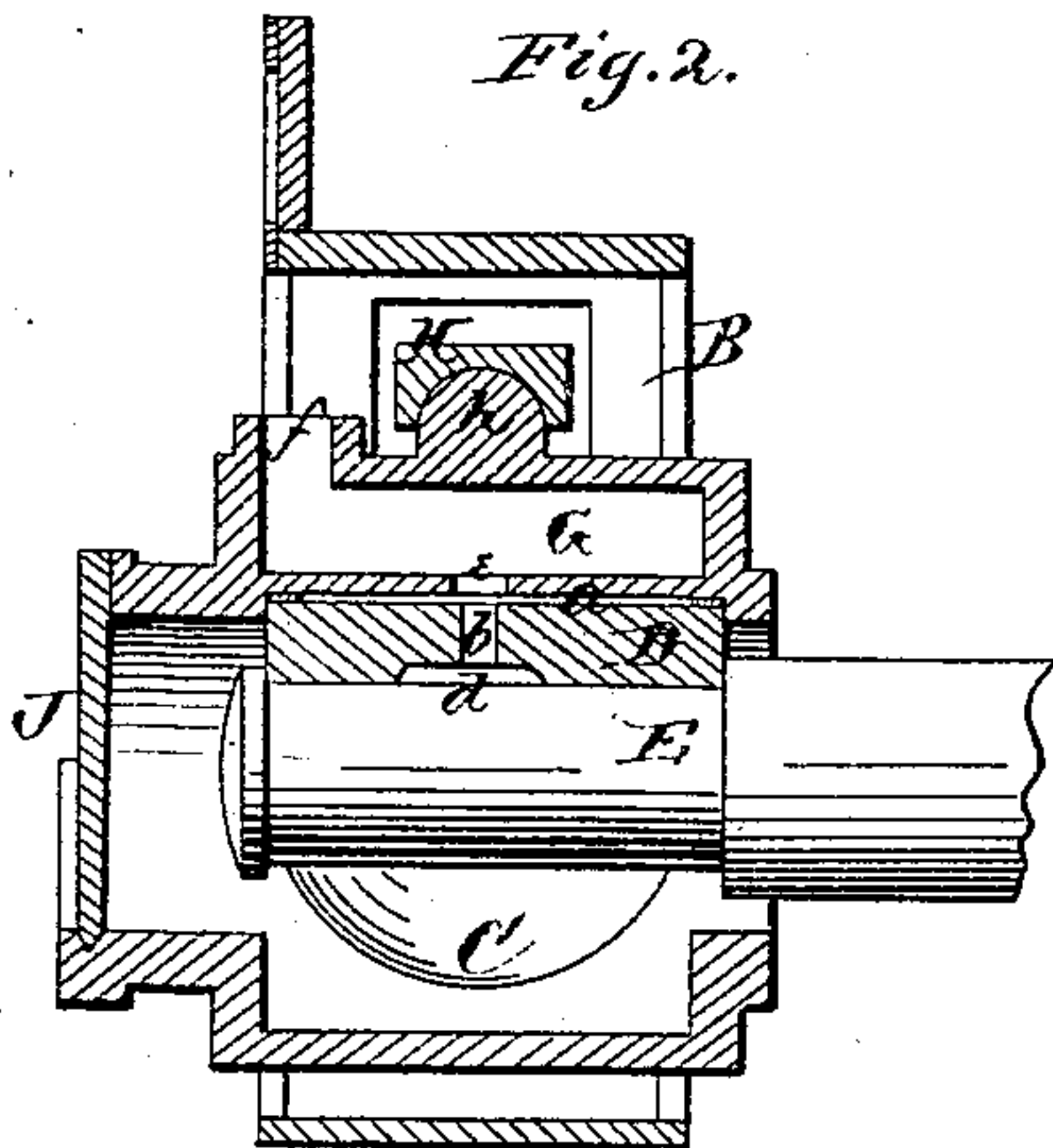
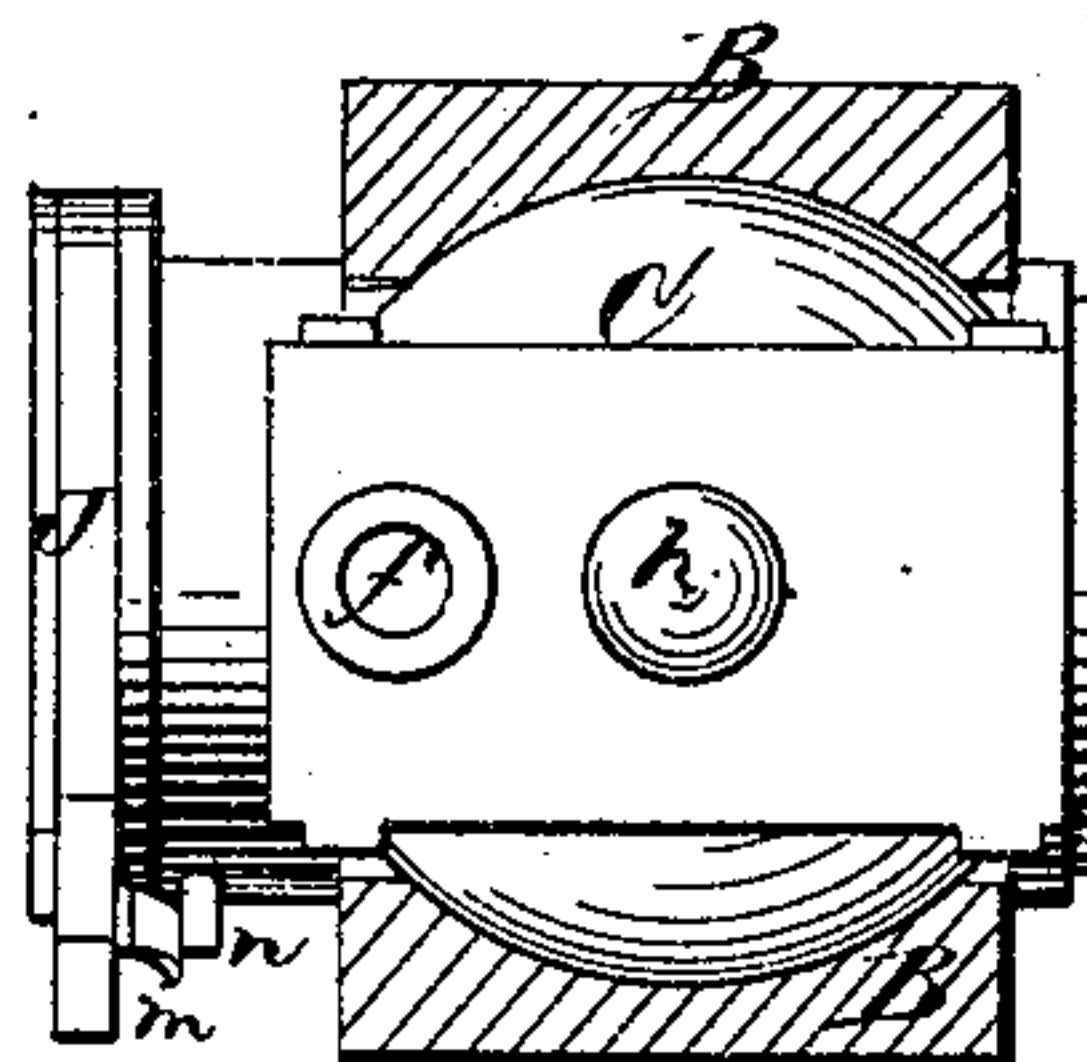


Fig. 3.



Witnesses:

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# UNITED STATES PATENT OFFICE.

DAVID MUZZEY, OF ST. ALBANS, VERMONT.

## IMPROVEMENT IN CAR-AXLE BOXES.

Specification forming part of Letters Patent No. **145,004**, dated November 25, 1873; application filed April 3, 1873.

*To all whom it may concern:*

Be it known that I, DAVID MUZZEY, of St. Albans, in the county of Franklin and in the State of Vermont, have invented certain new and useful Improvements in Car-Axle Box; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in constructing the hangers of a car-axle box with concave interiors, and the axle-box itself globe-shaped, as hereinafter more fully set forth.

In order to enable others skilled in the art, to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of a car-truck, showing one of the boxes and hangers in transverse vertical section. Fig. 2 is a longitudinal vertical, and Fig. 3 a horizontal, section of the same.

A represents a part of a car-truck frame, to which the hangers B B are firmly secured in any suitable manner. The sides of each hanger B are made concave on the inside, as shown in Fig. 3, and the box C, which is placed there-

in, is globe-shaped, fitting within the hanger, and having room to oscillate horizontally. This allows the journal-block to fit the journal freely on any curved or bent axle, as the box will turn in the hanger sufficiently to accommodate such curve or bend. D represents the journal-block, having a top chamber, *a*, passage *b*, and channel *d*. E represents the journal of the axle. G represents an oil-chamber; *f*, an oil-opening; *e*, an oil-passage; H, a yoke, resting on the rounded pivot *h* on the top of the box. I I are springs between the yoke and the truck-frame. J is a pivoted door, having a spring latch, *m*.

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

The hanger B provided with concave sides, as shown and described, in combination with the globe-shaped box C, for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 17th day of March, 1873.

DAVID MUZZEY. [L. S.]

Witnesses:

H. F. STEVENS,  
J. B. CARLISS.