

H. B. Rowley,

Axle Box.

No. 89,349.

Patented. April. 27. 1869.

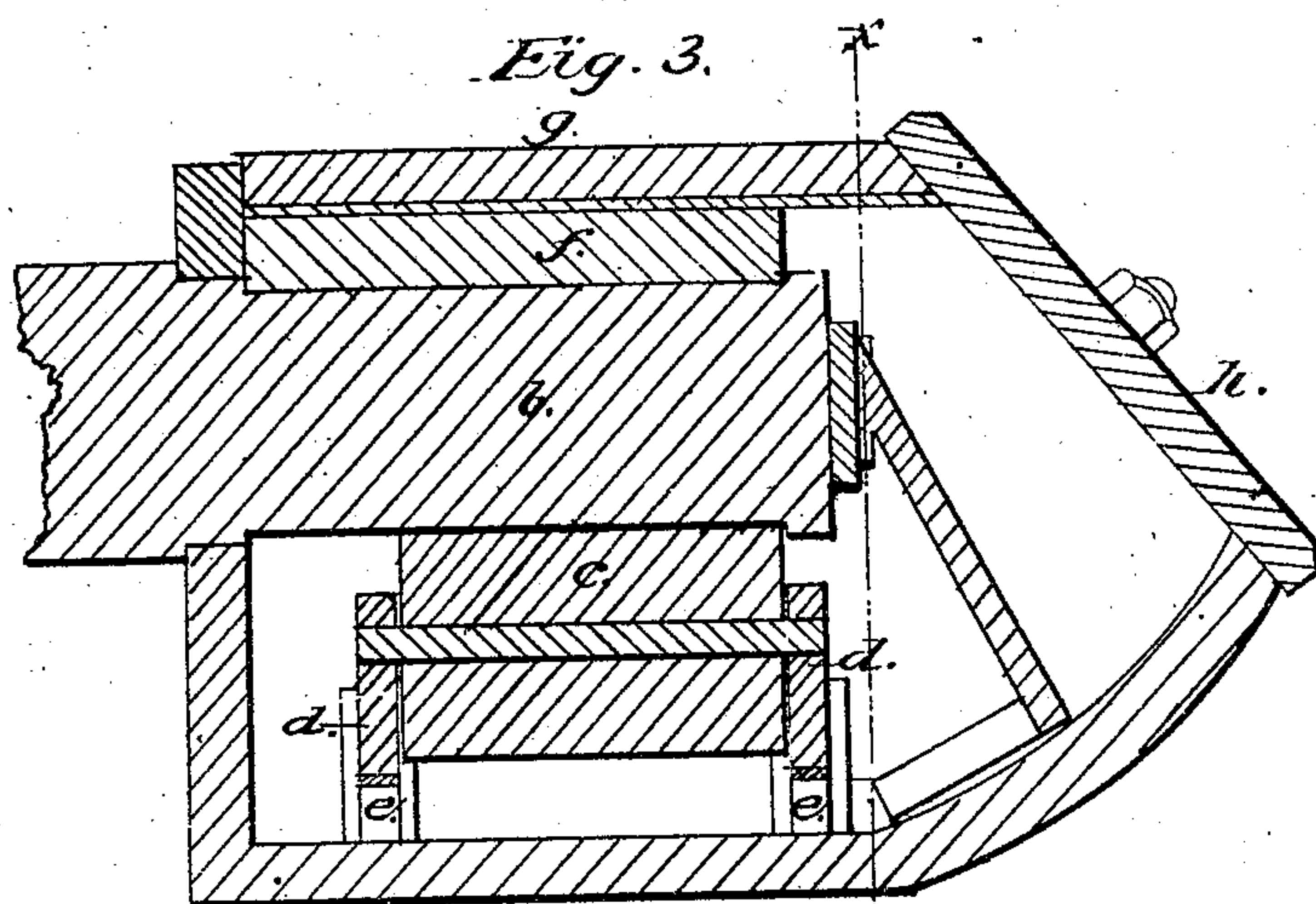


Fig. 2.

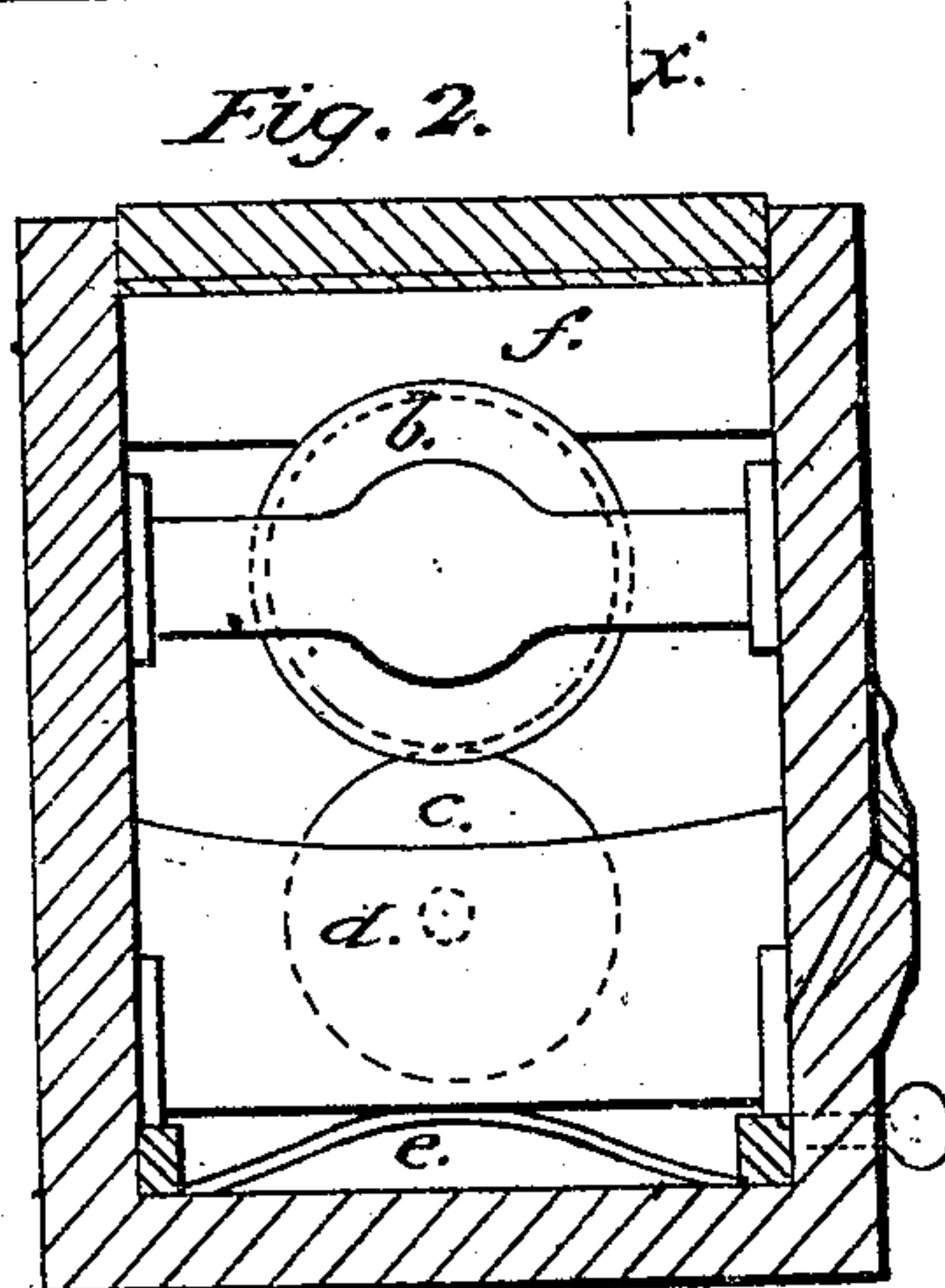
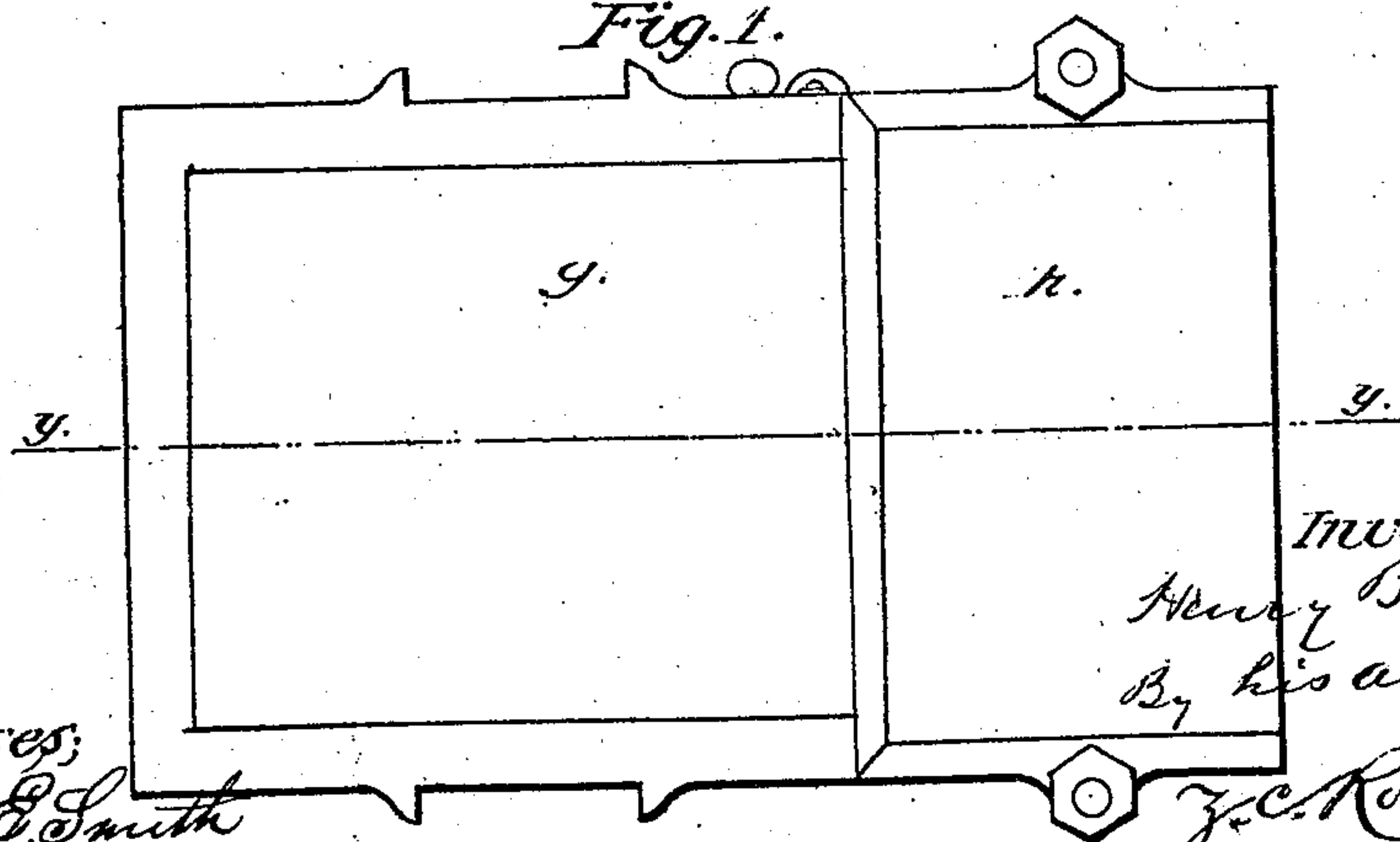


Fig. 1.



Witnesses;
Sydney C. Smith
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UNITED STATES PATENT OFFICE.

HENRY B. ROWLEY, OF BUFFALO, ASSIGNOR TO CARRIE R. LAMAN, OF
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IMPROVED JOURNAL-BOX FOR RAILWAY-CARS.

Specification forming part of Letters Patent No. **89,349**, dated April 27, 1869.

To all whom it may concern:

Be it known that I, HENRY B. ROWLEY, of Buffalo, in the county of Erie and State of New York, have invented a new and improved manufacture in the shape of an Improved Journal-Box for Railway-Cars; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a top view of my said improved journal-box; Fig. 2, a section of the same in the line *x x* of Fig. 3; and Fig. 3, a section in the line *y y* of Fig. 1.

Similar letters indicate like parts in each of the drawings.

The construction of the exterior portion of my improved railway-car journal-box is substantially like that of the best railway-car journal-boxes now in use.

The improvement in my improved journal-box consists in the combination therewith of a pivoted roller, *c*, of vulcanized rubber, in such a manner as to give the said roller such a degree of elastic pressure against the under side of the journal *b* of the car-axle as will cause the rotations of said journal to impart a continuous rotary movement to said roller, and as a portion of this roller is immersed in the oil in the lower portion of the journal-box the said roller will unerringly keep the axle-journal at all times evenly and smoothly lubricated with fresh oil, and without the possibility of wasting any portion of said oil. The

sulphur which forms a component part of the vulcanized-rubber oiling-roller *c* chemically exerts a cooling influence upon the lubricating-oil, and also upon the axle-journal, with which it is constantly in contact. The soft and elastic nature of the vulcanized-rubber bearing-surface of the oiling-roller *c* also insures the continuous rotation of said roller, even when it bears but lightly against the surface of the journal of the car-axle, provided the journal-box be at all times furnished with the requisite supply of oil.

The body of the oiling-roller *c* may, if preferred, be made of any suitable material other than vulcanized rubber, provided the said body be furnished with a suitable covering of vulcanized rubber.

What I claim as my invention, and desire to secure by Letters Patent, as a new and improved manufacture, is—

An improved railway-car journal-box, the improvement therein consisting in the combination therewith of the vulcanized-rubber-surfaced oiling-roller *c*, substantially in the manner herein set forth.

The foregoing specification of my improvement in the journal-boxes of railway-cars signed and witnessed this 5th day of January, 1869.

HENRY B. ROWLEY. [L. S.]

Witnesses:

M. H. BARTO,
H. J. ZUDEICK.