

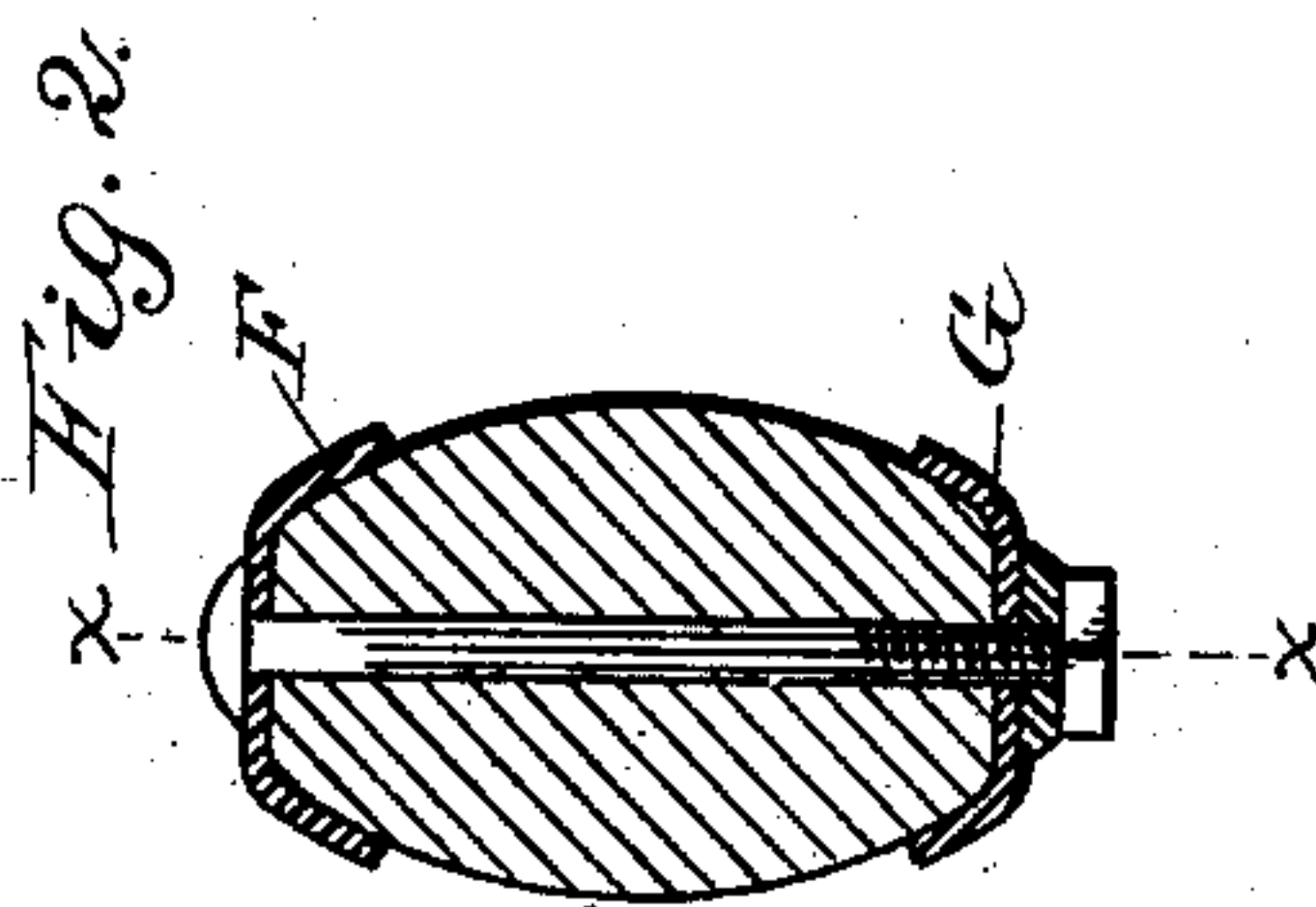
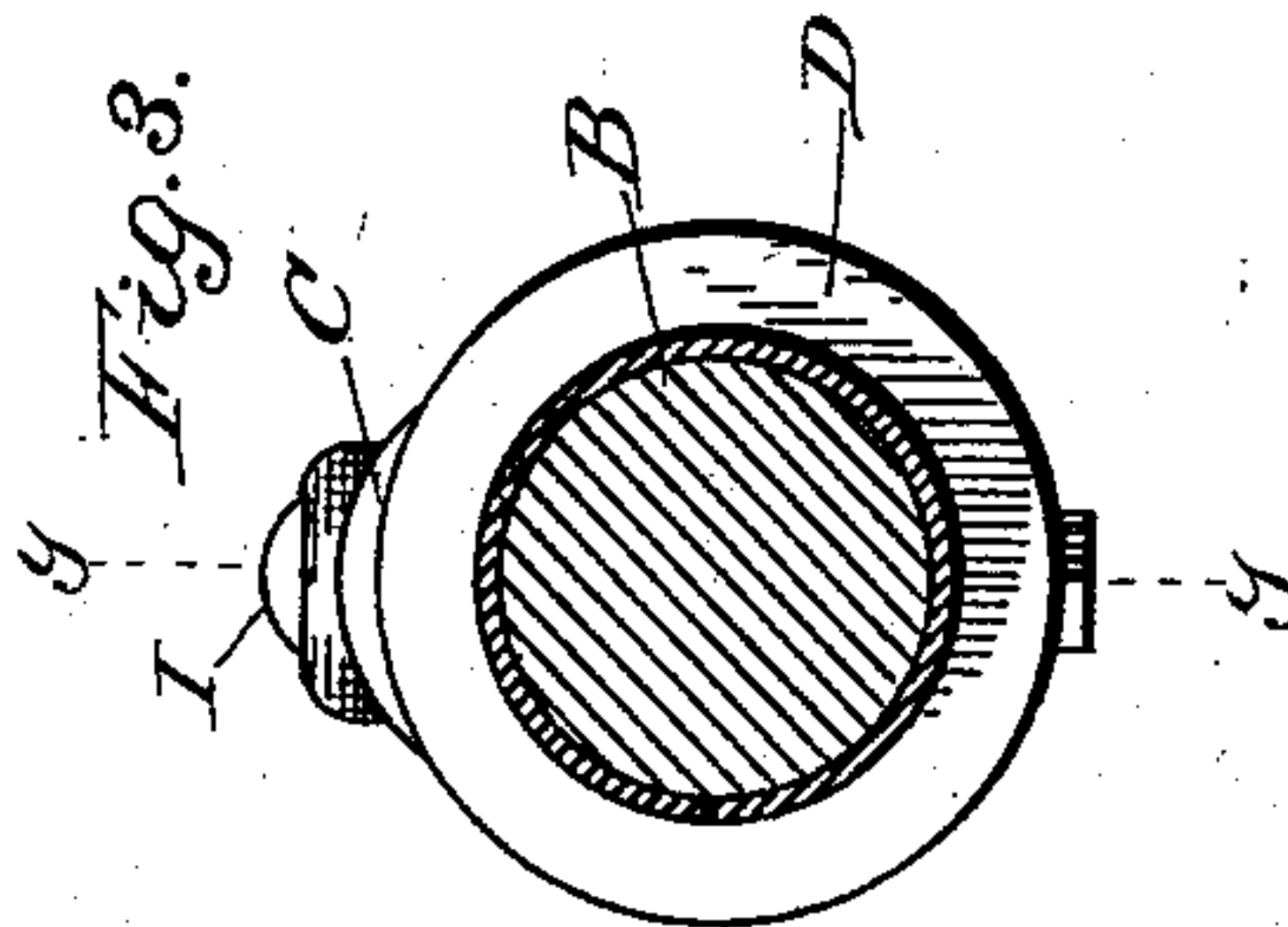
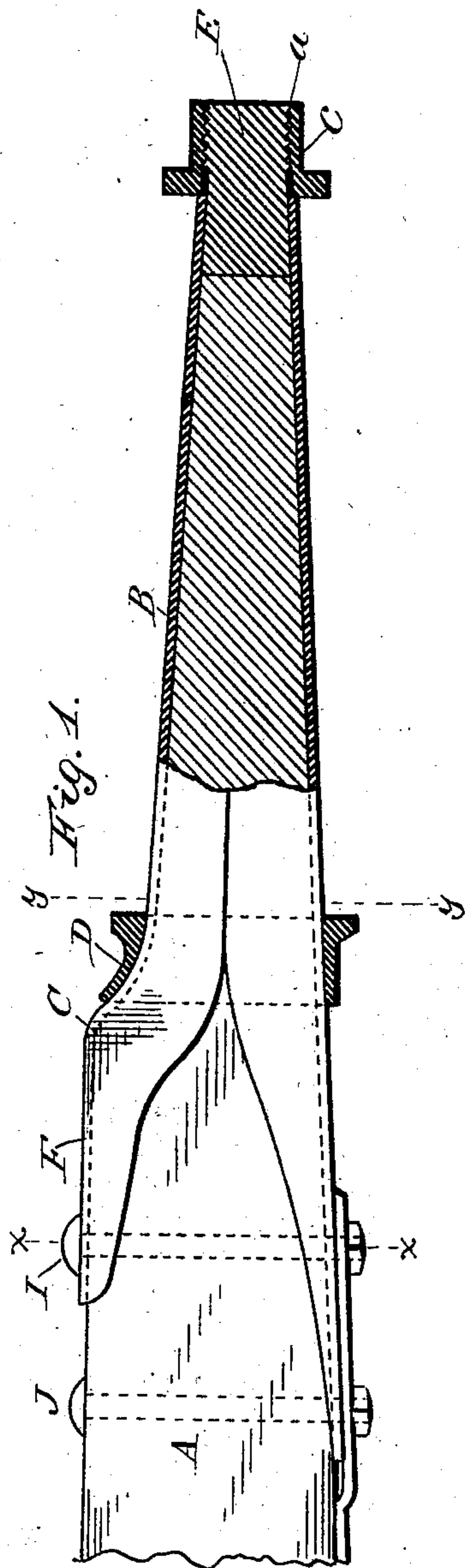
(Model.)

J. & P. HERRMANN.

AXLE SKEIN.

No. 256,681.

Patented Apr. 18, 1882.



Witnesses:

J. W. Garner
William S. D. Haines.

John Herrmann
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Inventors:

By H. J. Ewins
Att'y

UNITED STATES PATENT OFFICE.

JOHN HERRMANN AND PETER HERRMANN, OF EVANSVILLE, INDIANA.

AXLE-SKEIN.

SPECIFICATION forming part of Letters Patent No. 256,681, dated April 18, 1882.

Application filed March 3, 1882. (Model.)

To all whom it may concern:

Be it known that we, JOHN HERRMANN and PETER HERRMANN, citizens of the United States, residing at Evansville, in the county of Vanderburg and State of Indiana, have invented certain new and useful Improvements in Wagon-Axles, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has relation to carriage-axles; and its object is to provide a simple, light, and inexpensive axle, and at the same time one that will possess the greatest strength and less liable to break than those of ordinary construction; and the novelty consists in the construction of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

20 In the accompanying drawings similar letters of reference indicate like parts of the invention.

Figure 1 is a side view, partly in section. Fig. 2 is a section through the line *x x*, and Fig. 3 is a similar view through the line *y y*.

25 A is the ordinary axle-bar of wood.

30 B is the thimble or skein of sheet metal, cut to the proper form while in the sheet. It is then rolled to the desired size, with a strong shoulder, C, at the end of the wheel-box, and a shoulder-ring, D, is then driven on the thimble B at this point. A short piece of round

iron, E, is inserted in the outer end of the thimble and welded there, and upon this solid portion a thread, *a*, is cut for the nut *c*. The ears F and G of the thimble B encompass the axle-bar A and extend sufficiently along the top and bottom thereof to receive the bolts I and J, by which means the thimble and axle-bar are made perfectly rigid, and the upward strain which the axle sustains in hillside traveling is thoroughly provided for, as well as the ordinary strain of the load while going over level ground.

Having thus described our invention, what we claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. The sheet-metal thimble B, ears F and G, and shoulder C, made in one piece, in combination with the ring D, constructed as and for the purpose set forth.

2. The sheet-metal thimble B, having ears F G and shoulder C, in combination with the ring D, stud E, and nut *c*, substantially as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN HERRMANN.
PETER HERRMANN.

Witnesses:

PAUL BEYER,
FRED. HERRMANN.