

(No Model.)

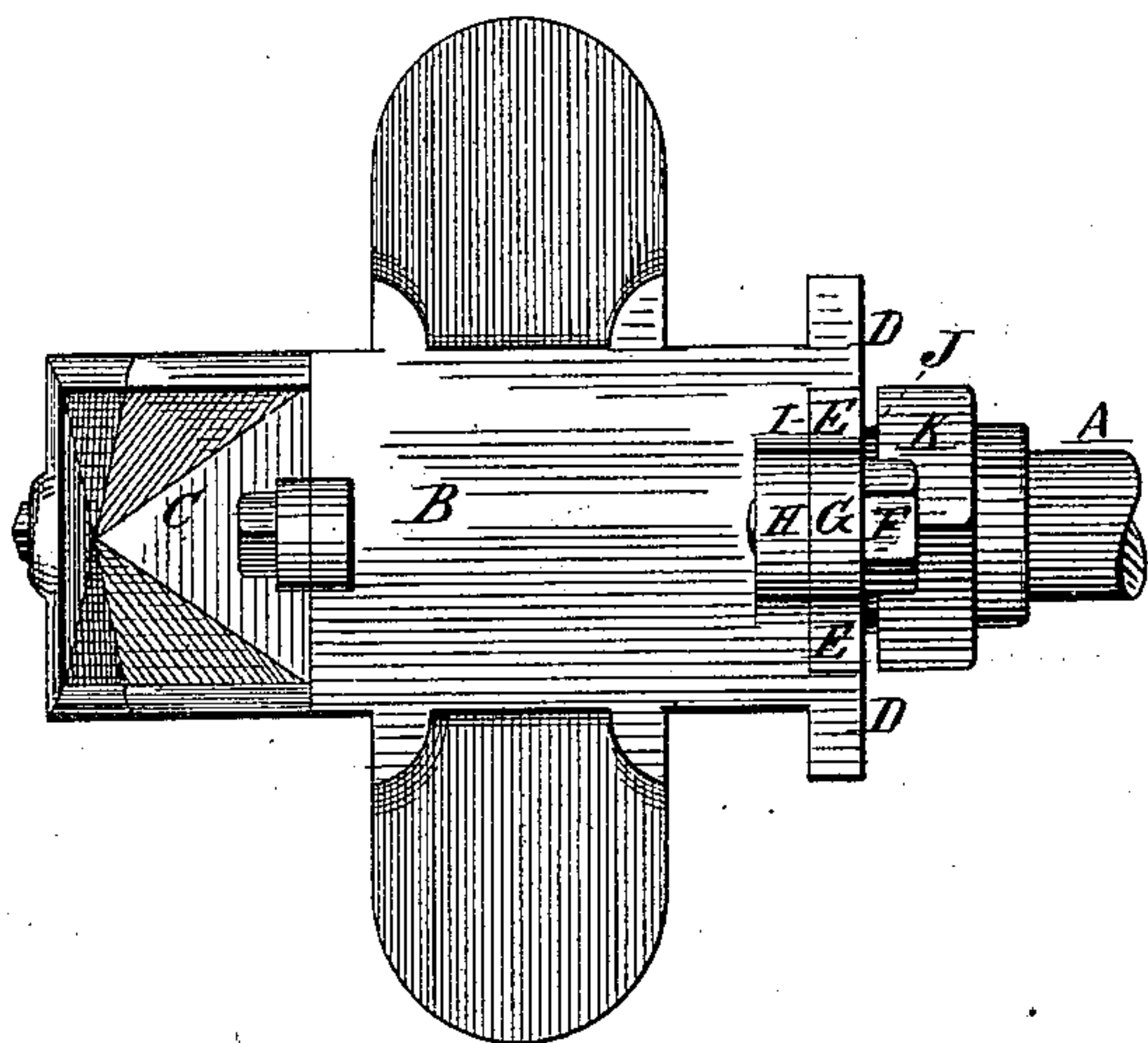
W. SUTTON.

CAR AXLE BOX.

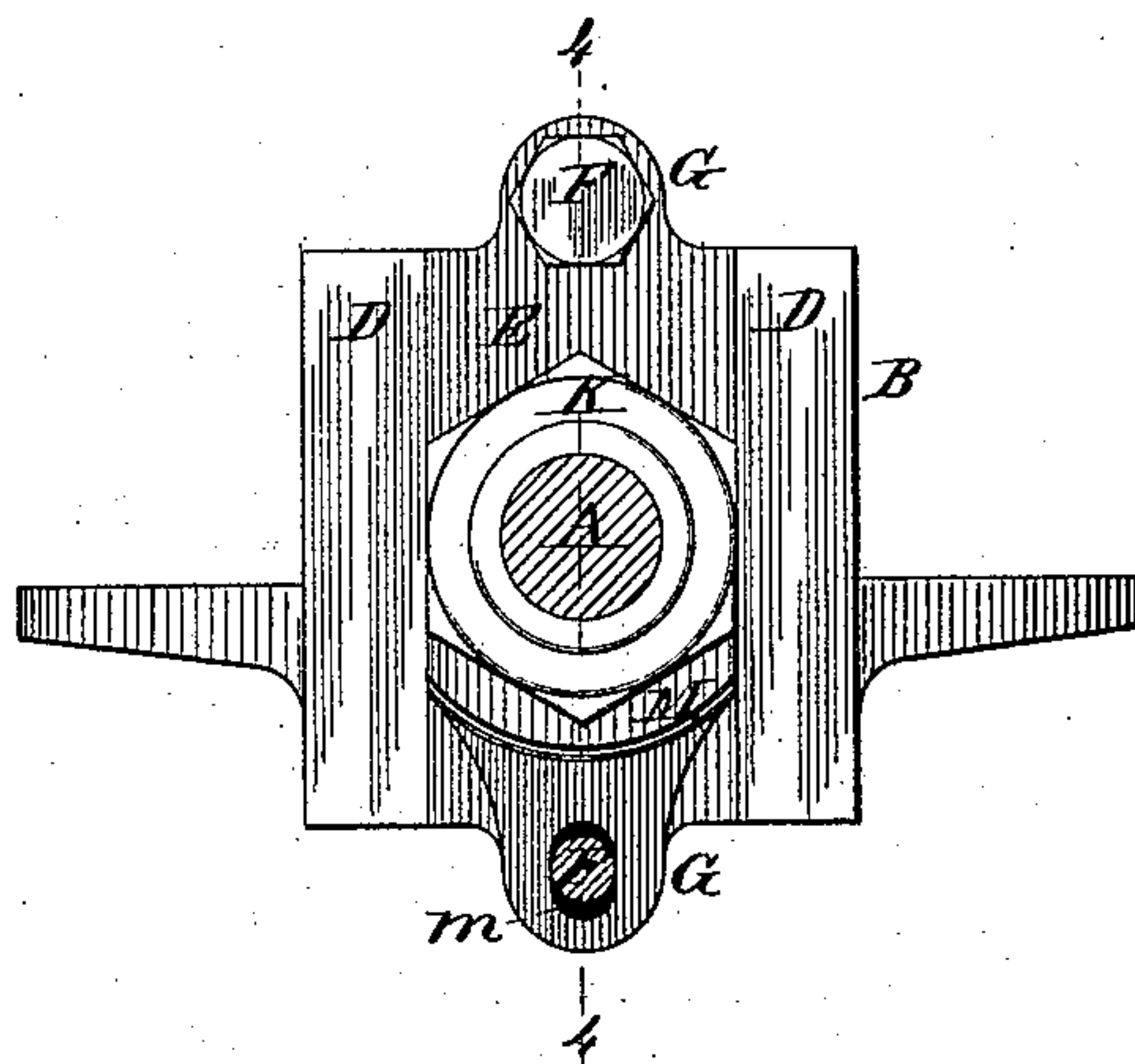
No. 334,205.

Patented Jan. 12, 1886.

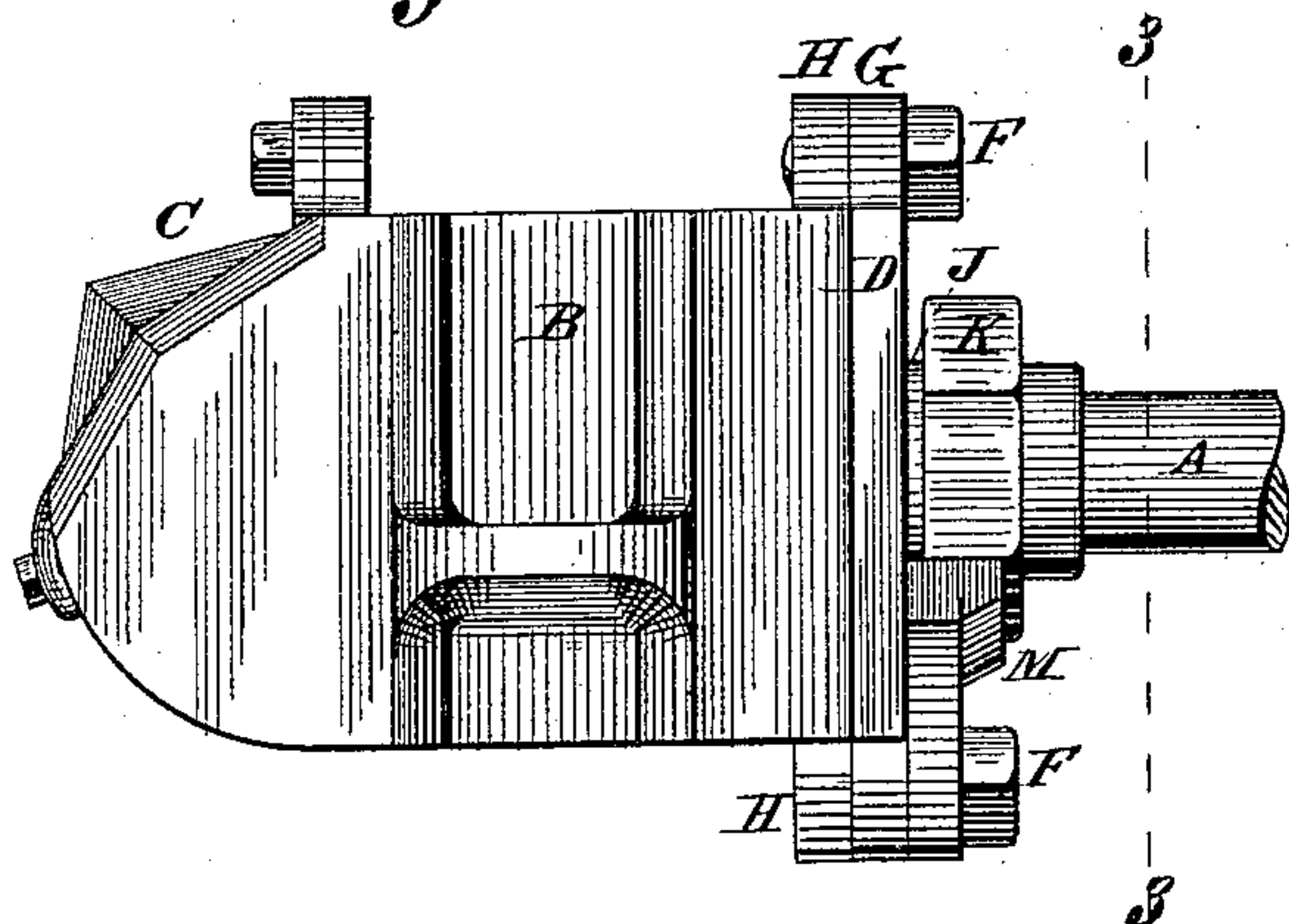
*Fig. 1.*



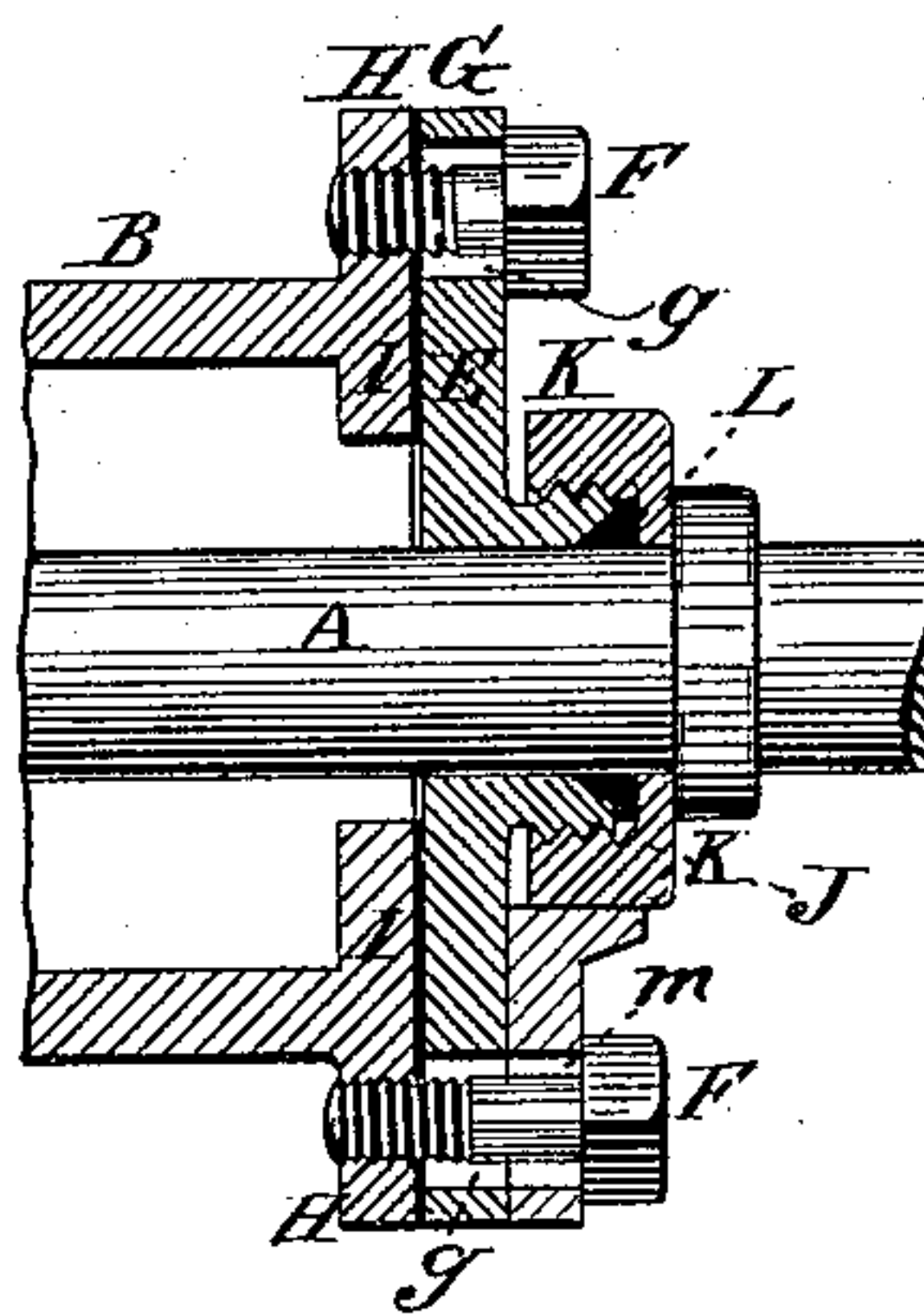
*Fig. 3.*



*Fig. 2.*



*Fig. 4.*



*Attest:*

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# UNITED STATES PATENT OFFICE.

WILLIAM SUTTON, OF ST. LOUIS, MISSOURI.

## CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 334,205, dated January 12, 1886.

Application filed April 18, 1885. Serial No. 162,693. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM SUTTON, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Grease-Boxes for Car-Axles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a top view of the grease-box with part of an axle. Fig. 2 is a side view of the same. Fig. 3 is a vertical section at 3 3, Fig. 2. Fig. 4 is a vertical section at 4 4, Fig. 3.

A part of the axle is shown at A.

B is the body of the grease-box, and C the removable cap, closing the opening through which access is had to the interior of the grease-box. The inner end of the grease-box is made with cheeks or guides D, forming a recess, which is filled by the plate E, which is held in place by bolts F, which pass through lugs G of the plate E and screw into lugs H of the body B. The bolt-holes *g* of the lugs G are elongated vertically, so that the plate E may be adjusted or moved in a vertical direction when the bolts or screws F are not too tight.

I is a gasket of india-rubber, leather, paper, or any suitable substance to make a grease-tight joint between the plate E and body B. Where elastic material is used for the gasket, a degree of vertical movement may be allowed to the plate without any impairment of the oil-tight character of the joint. Where the gasket is made of more rigid material, the plate may be adjusted vertically and fixed by screwing the bolts tight. The axle A passes through the plate E, and made in one piece with or fixed to the plate E is the cup J of the stuffing-box in which the axle turns.

K is a screw-cap or gland, (shown as screwing upon the part J;) but I do not confine myself to this construction, for the gland or screw-cap may have any suitable construction to compress the packing L and force it against the axle to prevent the escape of oil and the entrance of dust. By this construction the grease-box may be made practically air-tight, thus preventing waste of oil and entrance of dust, and preventing to great extent the wear of the axle-spindle and the brasses, the wear resulting chiefly from the entrance of dust.

M is a nut-lock, which has a re-entering angle fitting one of the corners of the screw-cap and preventing the turning of the cap. The nut-lock is held in place by one of the bolts F, which passes through a vertically-elongated hole, *m*, to allow the movement of the piece M with the plate E.

I claim—

1. The combination, in the grease-box of a car, of an adjustable plate at the inner side thereof carrying a stuffing-box, through which the axle passes.

2. The combination, in a grease-box for cars, of a plate adjustable in vertical guides and carrying a stuffing-box, through which the axle passes.

3. The plate carrying a stuffing-box and made movable upon the inner end of the grease-box and secured thereto by bolts passing through vertical slots of the plate and screwing into the body of the box.

WILLIAM SUTTON.

Witnesses:

SAML. KNIGHT,  
GEO. H. KNIGHT.