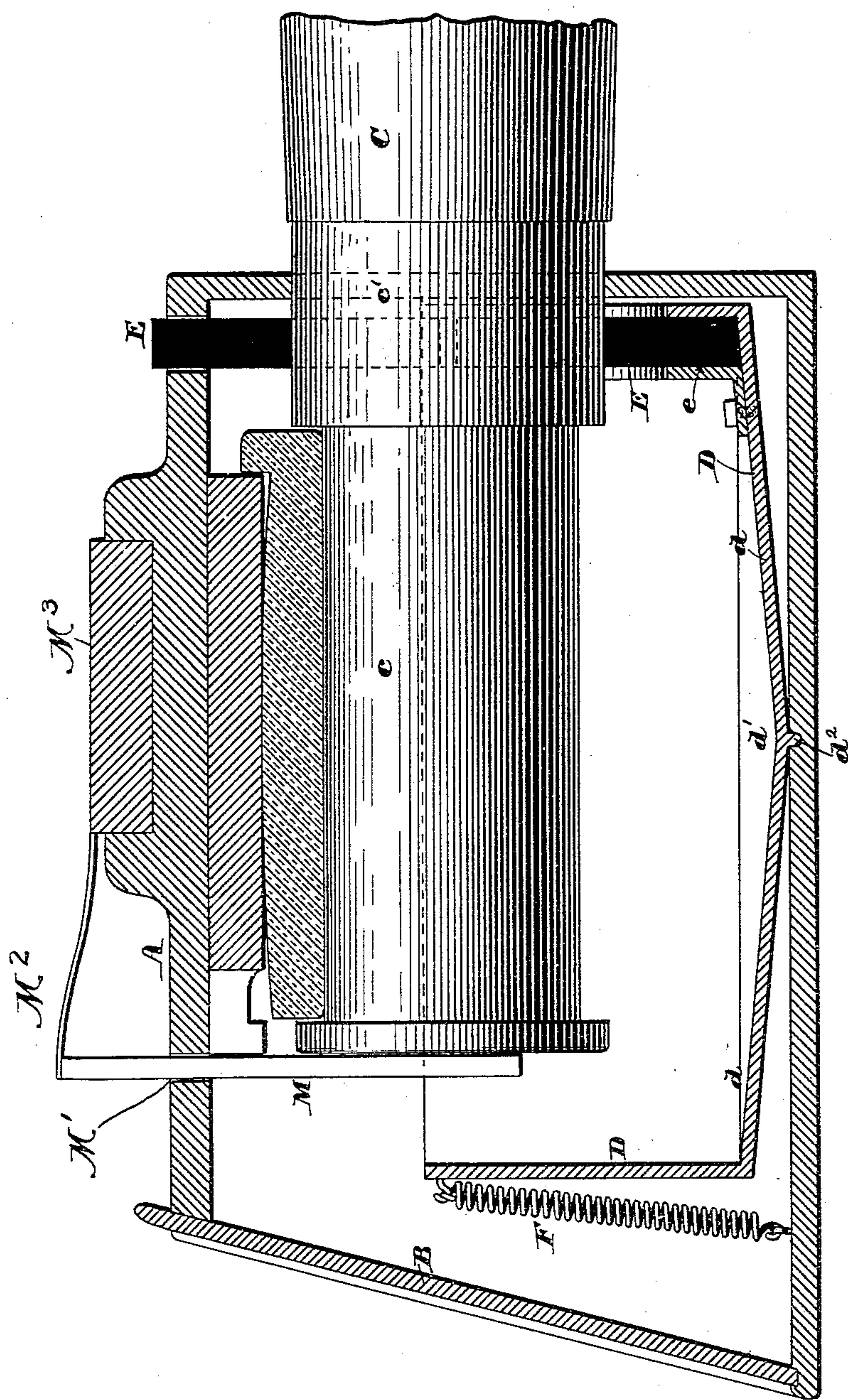


(No Model.)

A. D. RICHMOND.  
CAR AXLE BOX.

No. 555,184.

Patented Feb. 25, 1896.



Witnesses:

*Mrs Pemberton*  
*W J Richmond*

Inventor:

*Albert D. Richmond*



# UNITED STATES PATENT OFFICE.

ALBERT D. RICHMOND, OF SACRAMENTO, CALIFORNIA.

## CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 555,184, dated February 25, 1896.

Application filed June 7, 1892. Serial No. 435,908. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT D. RICHMOND, a citizen of the United States, residing at Sacramento, Sacramento county, State of California, have invented an Improvement in Car-Axle Boxes; and I hereby declare the following to be full, clear, and exact description of the same.

My invention relates to car-axle boxes; and it consists in an independent tilting or rocking oil-cellar removably seated in the main box and having a gasket within its inner end fitting the sleeve of the axle-journal and held closely thereto by the tilting of the cellar, as I shall hereinafter fully describe, and specifically point out in the claims.

My present invention differs from those of the same class as heretofore constructed in the construction of the cellar, whereby it holds the gasket well up to the journal-sleeve, and in said cellar being wholly confined within the main box instead of having the box-cover at its outer end. It is more applicable to freight-cars, as it will require less inspection. Referring to the accompanying drawing for a more complete explanation of my invention, the figure is a longitudinal vertical section of my axle-box.

A is the main box. This may have any suitable cover or lid. This is here shown as a sliding cover B.

C is the axle, having journal *c* and sleeve *c'*.

D is my oil-cellar. It consists of a vessel made of any suitable material, cast or sheet iron or steel or brass. The bottom *d* of the cellar is inclined from each end to an apex-line *d'* at its transverse middle, forming a bearing on which it can tilt or rock endwise. At this line it may be provided with a small lug *d<sup>2</sup>* to fit in a socket in the bottom of the main box to prevent the cellar from slipping inwardly and to hold and steady it in place. This cellar is fitted in the main box and can be readily inserted and removed therefrom. Its top edges reach up to about the middle of the journal and sleeve on each side, and its inner end, which is near the inner end of the main box A, is grooved out to receive the journal-sleeve, and on its inner surface is a

gasket E, which fits the said sleeve closely and is held to the cellar end by any suitable means, as by being dropped in a recess *e* made in the cellar.

F is a spring secured to the outer end of the cellar and to the box A. Its tendency is to pull down the outer end of the cellar and thereby to raise its inner end and to hold the gasket well and closely to its seat. In this movement the cellar rocks or tilts on its ridged bottom. The cellar can easily be packed with waste and can be removed and inserted readily.

M is a bar depending through a slot M' in the top of the box A, in engagement with the end of the car-axle journal *c*, and held to its place by a spring M<sup>2</sup> seated in the equalizing-bar M<sup>3</sup> at one end and secured at its other end to the upper end of said bar or stop, and is designed to prevent the cutting away of the brass by the sleeve and journal by longitudinal play thereat, which would take place in the absence of such stop and from which certain other difficulties would follow.

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

1. In a car-axle box, the combination of a tilting or rocking oil-cellar therein having a gasket at its inner end fitting the journal-sleeve of the axle, and a spring acting on said cellar to tilt it and hold its gasket closely to the journal-sleeve, substantially as herein described.

2. In a car-axle box, the combination of the main box, the removable oil-cellar fitted and confined therein and having an inclined bottom forming an apex or ridge on which it can rock on the bottom of the main box, the gasket at the inner end of the cellar bearing on the journal-sleeve and the spring for tilting or rocking said cellar to hold its gasket up to the sleeve, substantially as herein described.

In witness whereof I have hereunto set my hand.

ALBERT D. RICHMOND.

Witnesses:

CHAS. M. CAMPBELL,  
JNO. C. TEATER.