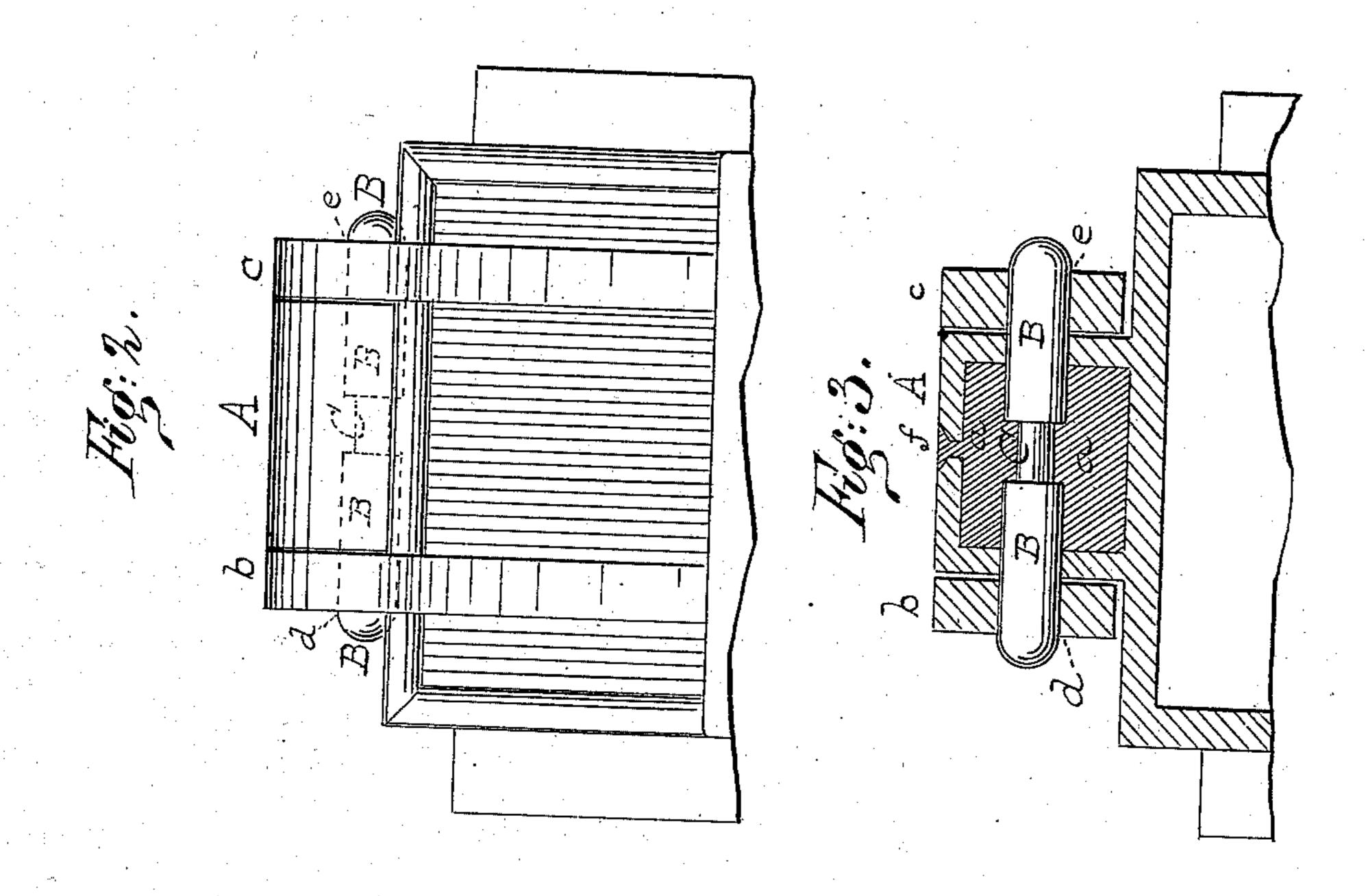
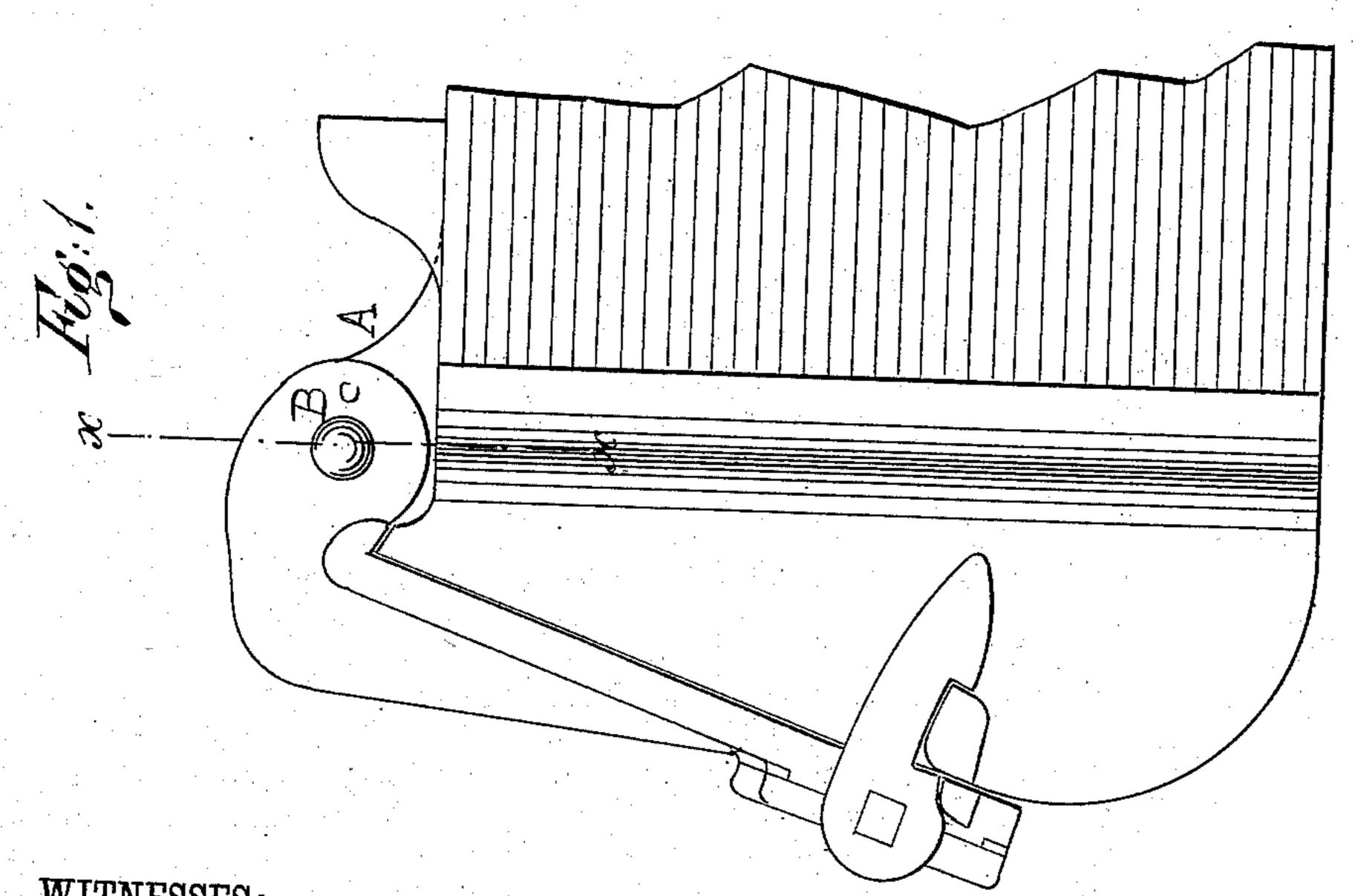
(No Model.)

J. R. BAKER. CAR AXLE BOX.

No. 269,995.

Patented Jan. 2, 1883.





WITNESSES:

Chas Nida. Charles & Simms Jr.

United States Patent Office.

JACKSON R. BAKER, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO THE NATIONAL SAFETY CAR BEARING COMPANY, OF NEW YORK.

CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 269,995, dated January 2, 1883.

Application filed March 30, 1882. (No model.)

To all whom it may concern:

Be it known that I, Jackson R. Baker, of Jersey City, Hudson county, State of New Jersey, have invented a new and useful Improvement in Car-Axle Boxes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying sheet of drawings, making part of this specification.

This invention is in the nature of an improvement in car-axle boxes; and the invention consists in a car-axle box with its lidhinge provided with a pivotal bolt keyed in position in the hinge by soft metal or alloy, as is more particularly described hereinafter.

In the accompanying sheet of drawings, Figure 1 represents a side view of my invention; Fig. 2, a front view of same; Fig. 3, a longitudinal section of same, taken in the line x x, 2c Fig. 1.

This invention pertains particularly to the hinge of an axle-box which unites the box proper to its lid.

In the hinges ordinarily made the pivot of 25 the hinge, being secured sometimes by a screwnut and at others by a key or pin passed transvers ly through its projecting ends, will frequently work loose and out of place, the door of the box falling off and exposing the axle-30 journal to the dust, speedily cutting the brasses, and resulting in what are known as "hot boxes." To obviate this difficulty I construct my hinge with lugs A and b and c, and bore out the interior of the lug A of the hinge with a 35 cylindrical opening, a, somewhat larger in diameter than is the pivot-bolt B, which is to pass through it, the lugs b and c of the hinge, however, being bored with holes d and e, of such size as will snugly receive the pivot-bolt B when inserted in them. This pivot bolt or pin B is of suitable length to pass through the lugs b and c and the lug A, and it has turned in it midway between its ends a groove or recess, C. entirely encircling it. Through the 45 top of the lug A and into the cylindrical opening a is also bored a hole, f. Now, when the

lug A on the box is fitted between the lugs b

and c on the lid of the box the pivot bolt or

pin B is inserted through the holes d and e in

50 the lugs b and c, and through the cylindrical b

opening a in the lug A, and any soft alloy such as Babbitt metal—is poured through the hole funtil the cylindrical opening a in the lug A is entirely filled, the soft metal surrounding the pivot-pin B and entering into the groove 55 or recess C of said pivot-pin B, and keying the same within the lug A and preventing it from working out of its position in the hinge, coufining the pin B in place as long as it may be desired. In case it becomes necessary to re- 60 move the lid of the box, as when the lid becomes broken or for any other reason, it is easily and quickly accomplished by drifting the pivot-pin B through the lugs A, b, and c, the soft-metal alloy surrounding the pin in the 65 lug A readily yielding for that purpose.

I am aware that it is not new to divide caraxles and connect their ends by boxes in which a soft-metal bearing has been provided for the same, such soft metal remotely serving to hold 70 the ends together or in the box; but I am not aware that a car-axle box has had its lid hinged to it in the manner and by the means I have herein shown and described.

Having now described my invention, what I 75 claim as new, and desire to secure by Letters Patent, is—

1. A car-axle box having its lid secured thereto by a recessed pin arranged in lugs on the box and lid, and retained in position therein 80 by soft metal embracing its recessed portion, substantially as shown and described.

2. In a car-axle box, the lug A, having a cylindrical opening, a, therein, and the pin-receiving lugs b c, combined with a recessed con-85 necting-pin, B, and an alloy engaging said-recessed pin within the opening a in the lug to hold the pin in place, substantially as shown and described.

3. The lid of an axle-box, provided with a 90 hollow lug, A, a pin, B, having a recess or groove, C, and an alloy surrounding such pin within the lug to hold it therein, combined with bearings for such pin on the box to secure the lid thereto, substantially as shown 95 and described.

J. R. BAKER.

Witnesses:

ROBERT JACKSON, CHARLES E. SIMMS, Jr.