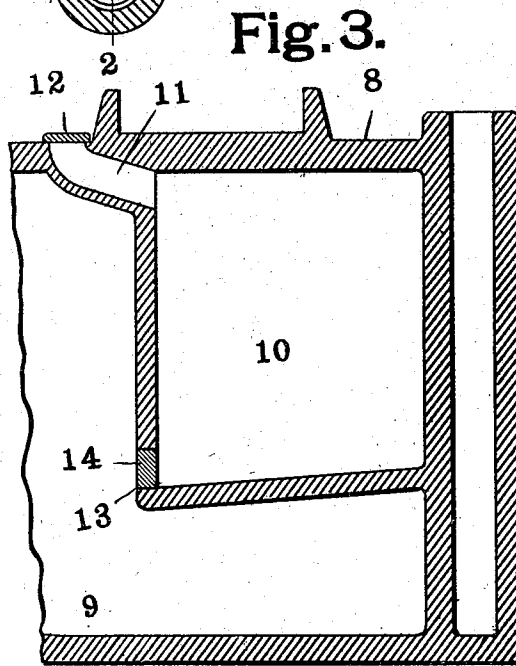
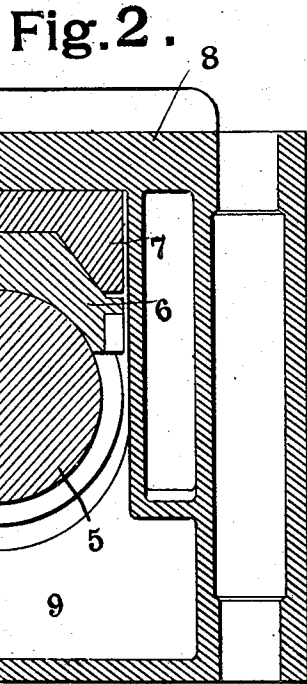
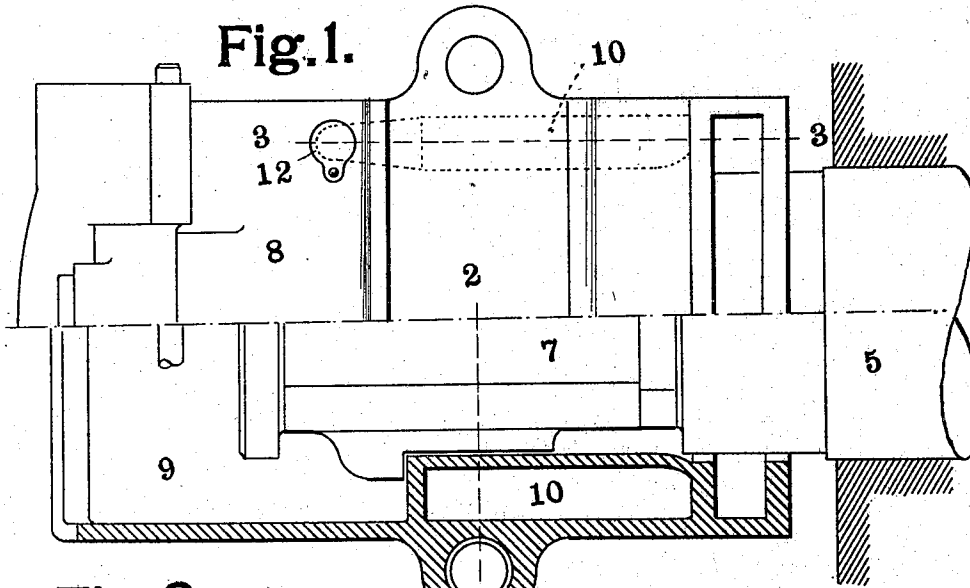


R. E. MATHIS.
JOURNAL BOX.
APPLICATION FILED NOV. 10, 1915.

1,209,005.

Patented Dec. 19, 1916.



WITNESSES:

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JOURNAL-BOX.

1,209,005.

Specification of Letters Patent.

Patented Dec. 19, 1916.

Application filed November 10, 1915. Serial No. 60,635.

To all whom it may concern:

Be it known that I, RALPH E. MATHIS, a citizen of the United States of America, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Journal-Boxes, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a journal box for railway cars, and has for its object the provision of auxiliary means for supplying oil to the box when the ordinary oiling device fails to perform its function.

In the accompanying drawings, which illustrate one form of journal box made in accordance with my invention, Figure 1 is partly a top plan view and partly a horizontal section. Fig. 2 is a vertical section through one-half of the box taken on the line 2—2 of Fig. 1. Fig. 3 is a section taken on the line 3—3 of Fig. 1.

Like marks of reference refer to similar parts in the several views of the drawings.

5 represents the axle of a railway car. Resting upon this axle 5 are the usual brass 6 and the wedge 7. Bearing upon the wedge 7 is a bearing box 8, which may be of any suitable construction. This bearing box 8 is provided with a space 9 which may be packed with oil-soaked waste or any other means for oiling the bearings of the journal 5. It has been found in practice that any such method of supplying the journal 5 with oil may at times fail to perform its proper function, resulting in what is known as a "hot box." In order to provide auxiliary oiling means when this occurs I supply the box 8 with a pair of auxiliary oil containers 10, one arranged at each side of the journal 5. These containers 10 are supplied with oil through a passage 11, closed by a cap 12, so arranged as to be easy of access from the

side of the car. The auxiliary oil containers 10 are provided at their lower and forward ends with openings 13, which are normally closed by plugs 14 of fusible metal. As soon as the main oil supplying means fail to operate and friction of the parts heats the box, these plugs 14 will melt and allow the oil contained in the auxiliary containers 10 to flow out into the main oil space 9 and thus supply additional oil to overcome the heating of the box.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent of the United States is—

1. The combination with an axle, of a journal box provided with a main oil chamber, and an auxiliary oil container formed integral with the body of the box, the walls of said auxiliary container forming a stop for the brass, and a fusible plug normally retaining the oil in said auxiliary container.

2. The combination with an axle, of a journal box provided with a main oil chamber, a pair of auxiliary oil containers formed integral with the body of the box, the walls of said auxiliary containers forming stops for the brass, and fusible plugs normally retaining the oil in said auxiliary containers.

3. The combination with an axle, of a journal box provided with a main oil chamber, a pair of auxiliary oil containers formed integral with the body of the box, the walls of said auxiliary containers forming stops for the brass, fusible plugs normally retaining the oil in said auxiliary containers, and means for filling said auxiliary containers through the top of the body of the journal box.

In testimony whereof, I have hereunto set my hand and affixed my seal in the presence of the two subscribing witnesses.

RALPH E. MATHIS. [L. s.]

Witnesses:

W. A. ALEXANDER,
M. C. HUGHES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."