

(No Model.)

J. W. STOREY & J. OLSSON.

SELF COOLING JOURNAL BOX.

No. 397,038.

Patented Jan. 29, 1889.

Fig. I,

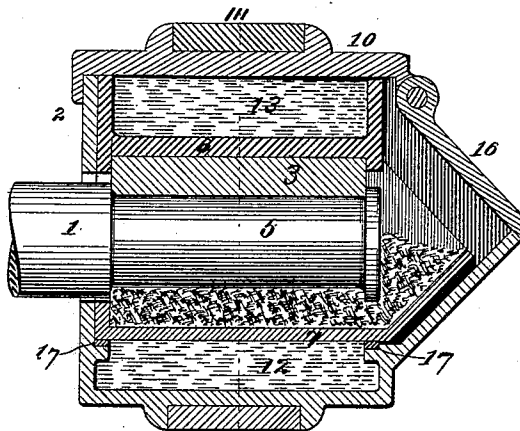


Fig. II,

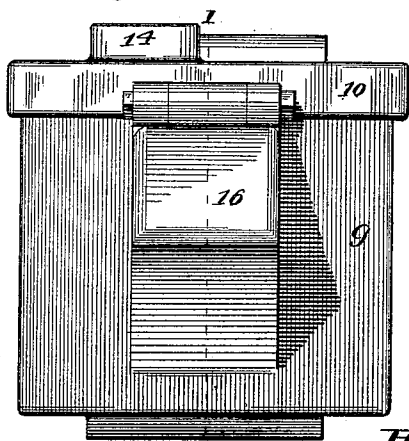


Fig. III,

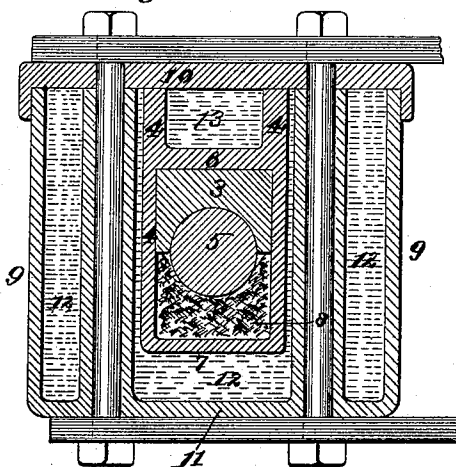


Fig. IV,

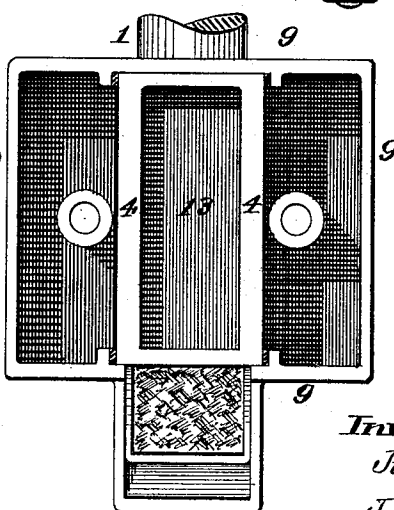


Fig. V,

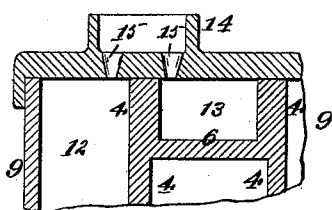
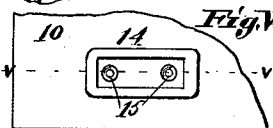


Fig. VI,



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UNITED STATES PATENT OFFICE.

JULIUS W. STOREY AND JOSEPH OLSSON, OF COTTON GIN, TEXAS.

SELF-COOLING JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 397,038, dated January 29, 1889.

Application filed October 15, 1888. Serial No. 288,082. (No model.)

To all whom it may concern:

Be it known that we, JULIUS W. STOREY and JOSEPH OLSSON, both of Cotton Gin, in the county of Freestone and State of Texas, have invented a certain new and useful Improvement in Self-Cooling Journal-Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure I is a vertical section of our improved journal-box, taken on line I I, Fig. II. Fig. II is an end view. Fig. III is a vertical transverse section taken on line III III, Fig. I. Fig. IV is a top view with the cap or cover removed. Fig. V is an enlarged detail section taken on line V V, Fig. VI. Fig. VI is a detail top view of the cap or cover, showing the filling-funnel.

Our invention relates to an improvement in journal-boxes, intended more particularly for use on railway-cars; and our invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Referring to the drawings, 1 represents part of the axle of a railway-car; 2, the box, and 3 the brass. The box is constructed with a central chamber formed by walls 4, and which receives the journal 5 of the axle. The walls 4 have a top, 6, between which and the journal the brass 3 fits, and they have a bottom, 7, between which and the journal a packing, 8, is placed, as usual. The walls 4 are inclosed by an outer casing or housing, 9, having a top, 10, and a bottom, 11. This casing or housing forms a water-chamber, 12, at each side of the walls 4 and beneath the walls. This chamber is filled with water for the purpose of keeping the journal cold or to prevent its being overheated. The walls 4 extend above the top 6 to the top 10, as shown in Fig. III, forming a water-chamber,

13, and thus the journal is entirely surrounded by water.

The water is placed in the chambers 12 and 13 through a funnel, 14, on the cap 10, this cap having perforations 15 at the bottom of the funnel, one of the perforations allowing the water to enter the chamber 12 and the other perforation allowing the water to enter the chamber 13. The chambers 12 and 13 are thus filled with water.

The housing or casing 9 is provided with a lid, 16, through which oil may be poured into the chamber formed by the walls 4 and bottom 7, and the joint between the housing 9 and the walls is packed, as shown at 17, Fig. I, to prevent the water from getting at the journal or into the chamber formed by the walls 4 and bottom 7.

Journal-boxes thus constructed can be cheaply manufactured, and the journal will be kept cool and prevented from being overheated.

We claim as our invention—

1. In a self-cooling journal-box, the combination of the walls 4, having top 6 and bottom 7, supporting the lubricating packing, and the housing 9 10, forming water-chamber 12 below and at the sides of the chamber formed by the walls 4 and bottom 7, and water-chamber 13 above the top 6, substantially as and for the purpose set forth.

2. In a self-cooling journal-box, the combination of the walls 4, having top 6 and bottom 7, housing 9, cover 10, packing 17, and a funnel on the cover, having perforations 15 at its bottom for filling the respective chambers 12 and 13, substantially as set forth.

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Witnesses:

W. C. RICHARDSON,
W. J. LOADER.