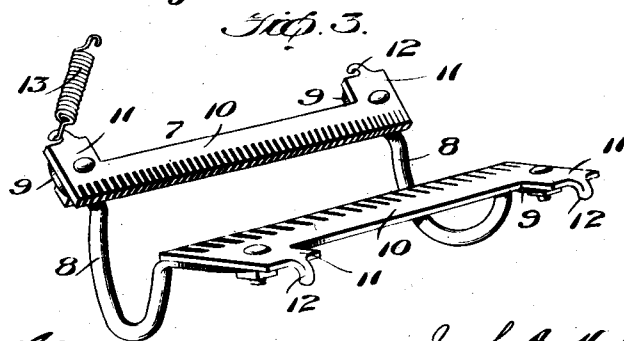
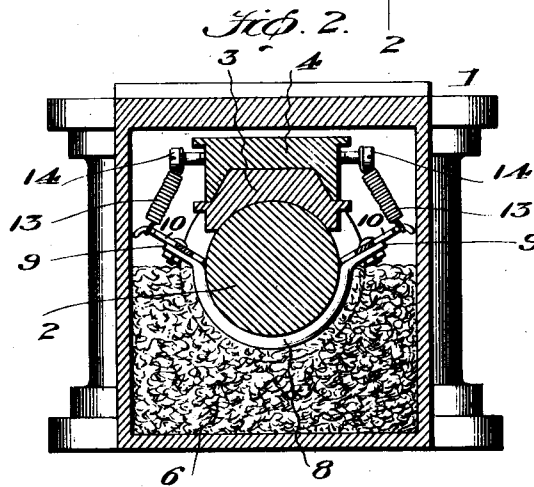
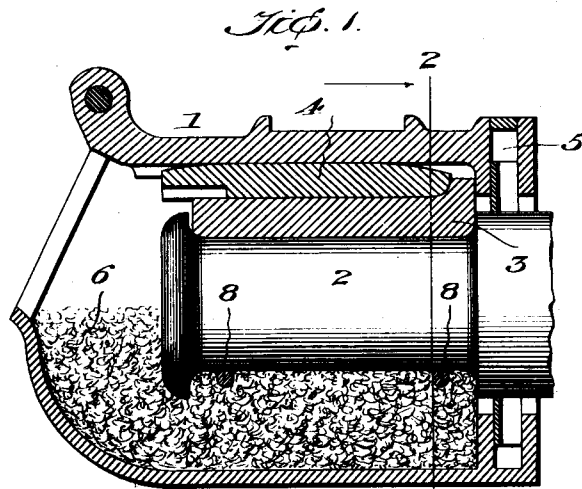


J. A. HYLE.
JOURNAL BOX FOR RAILWAY CARS.
APPLICATION FILED APR. 13, 1912.

1,058,060.

Patented Apr. 8, 1913.



WITNESSES
May M. Poyer

INVENTOR,
Jacob A. Hyle
by *Jos L. Skidmore*
his Attorney.

UNITED STATES PATENT OFFICE.

JACOB A. HYLE, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO WALTER R. CARMODY, OF CHICAGO, ILLINOIS.

JOURNAL-BOX FOR RAILWAY-CARS.

1,058,060.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed April 13, 1912. Serial No. 690,640.

To all whom it may concern:

Be it known that I, JACOB A. HYLE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Journal-Boxes for Railway-Cars, of which the following is a specification.

My invention relates to improvements in journal-boxes for railway-cars.

The prime object of my invention is to provide simple, economical, durable and effective means for preventing the oil-soaked waste from being carried up between the journal and the bearing-block or "brass," thus avoiding overheating of the adjacent parts of the bearing.

A further object of the invention is to provide means so arranged and secured within the box that, it will prevent the waste from being carried upward beyond a certain point, said means being readily removable for the purpose of repair or removal, and easily replaced.

The foregoing objects, and such other objects as may occur from the ensuing description, are attained by the improvements hereinafter more fully described and particularly pointed out in the claims appended hereto, and illustrated in the accompanying drawings, in which:—

Figure 1 represents a longitudinal section of the improved device embodying my invention. Fig. 2 illustrates a transverse sectional view taken on the line 2—2, Fig. 1, and Fig. 3 is a detail perspective view, showing the frame which constitutes the essential feature of my improvements, removed from the journal-box.

By reference to the drawings 1 indicates the journal-box of any well known or suitable shape or contour, 2 is the journal, 3, the journal bearing or brass, 4 is a suitably constructed wedge or key located on top of said brass, 5 is an opening in the rear portion of the box to receive a dust-guard, and 6 represents a mass of the well known oil-soaked waste which is arranged beneath the journal and surrounds the same to a suitable height within the box.

Thus far I have described certain features of an ordinary journal-box. It has been demonstrated by practical experience that in use the oil waste has and is liable to work up under and between the brass

and journal; that after being so located the waste gradually becomes dried out and sometimes is ignited by frictional contact, with the result the adjacent parts of the bearing are not properly lubricated and become hot, hence it is to prevent such overheating that my invention is particularly intended. My invention broadly comprises means partially surrounding the journal to a point above the horizontal plane of the axis of the journal so as to prevent the waste from working upward and into the aforesaid dangerous position, and this means, in the form shown, comprises a skeleton-like frame 7, supported by means hereinafter described, secured to the wedge or key 4. The said frame 7 consists of two metallic rods 8, preferably brass or copper, each rod surrounding the lower portion of the journal and extending upward to a point above the horizontal plane of the axis of the journal, the ends of each rod terminating in a flattened portion 9 having an opening to which is fastened a brass plate or comb 10 running lengthwise of the journal, one on each side thereof provided at each end with a projecting portion or ear 11, each ear having a perforation through which and the opening in the flattened ends of each rod is passed a threaded bolt provided with a nut for rigidly securing each of said plates 10 and the rods 8 together. Each projecting portion 11 is provided with a hook-shaped member 12, to which is secured one end of a spiral spring 13, the other end of said spring being fastened to a set screw 14 secured to the wedge or key 4, as clearly shown in Fig. 2 of the drawings.

In operation the plates or combs 10 rest above the oil soaked waste on each side of the journal and have a yielding contact with the journal owing to their support by the coiled springs, and regardless of the jarring or vibrating movements of the box during travel the springs will yieldingly support the frame in its proper relative position with respect to the journal, thus keeping the plates or combs in contact with the journal; hence any tendency of the waste to work up, as hereinbefore described, is prevented.

It will be understood that each end of the frame 7 is supported by two spiral or coiled springs 13, the upper end of each spring being secured to the head portion of a set

screw 14, the latter being suitably secured at each side of the wedge or key, and that when it is desired to remove the frame from the box for repairs or renewal, it will be simply necessary to unhook the upper portion of each spring and then withdraw the frame.

It will be obvious that slight alterations may be resorted to without departing from the spirit of my invention.

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

1. In a journal-box, a journal, a journal-brass, a wedge, and a skeleton frame surrounding said journal to a point above the horizontal plane of the axis of the journal, said frame consisting of a metal rod at each end, each rod being connected together by a metal plate running lengthwise of the journal at either side thereof, said plate having hook-shaped members formed at each end, and means for supporting said frame in its relative position around the journal, one end of said supporting means being secured to the said hook-shaped members and the other end secured to the said wedge.

2. In a journal-box, a journal, a journal-brass, a wedge, and a skeleton frame partially surrounding said journal, said frame consisting of a metal rod at each end, each rod being connected together by a metal plate running lengthwise of the journal at either side thereof, said plate being provided with hook-shaped members at each end, and coiled springs for yieldingly supporting said frame in its relative position around the journal, one end of each spring being secured to hook-shaped members

formed on the ends of said metal plate and the other end being secured to the said wedge.

3. In a device of the character described, a box, a journal, a journal-brass, a wedge, the walls of the box being adapted to receive oil-soaked waste, and a removable skeleton frame surrounding said journal to a point above the horizontal plane of the axis of the journal, said frame consisting of a rod at each end, each rod being connected together by a metal plate at each side of the journal, said plate having hook-shaped members formed at each end, and coiled springs for yieldingly supporting said frame, one end of each spring being secured to a hook-shaped member and the other end to the said wedge.

4. In a journal-box, a journal, a journal-brass, a wedge, and a skeleton frame partially surrounding the journal, said frame comprising two rods each terminating in flattened end portions, a metal plate running lengthwise on each side of the journal secured to the flattened ends of each rod and having a hook-shaped member formed at each end of each plate, threaded bolts and a nut for securing the rods and plates together, and coiled springs for supporting the frame, one end of each spring being secured to said hooked member, and the other end secured to the said wedge.

In testimony whereof I affix my signature in presence of two witnesses.

JACOB A. HYLE.

Witnesses:

STASIA ENGLISH,
E. W. BERTRAM.