F. G. HEPBURN.

WASTE SUPPORTER.

APPLICATION FILED MAR. 28, 1910.

991,302. **Patented May 2, 1911.**

2 SHEETS—SHEET 1.

FIG. 1

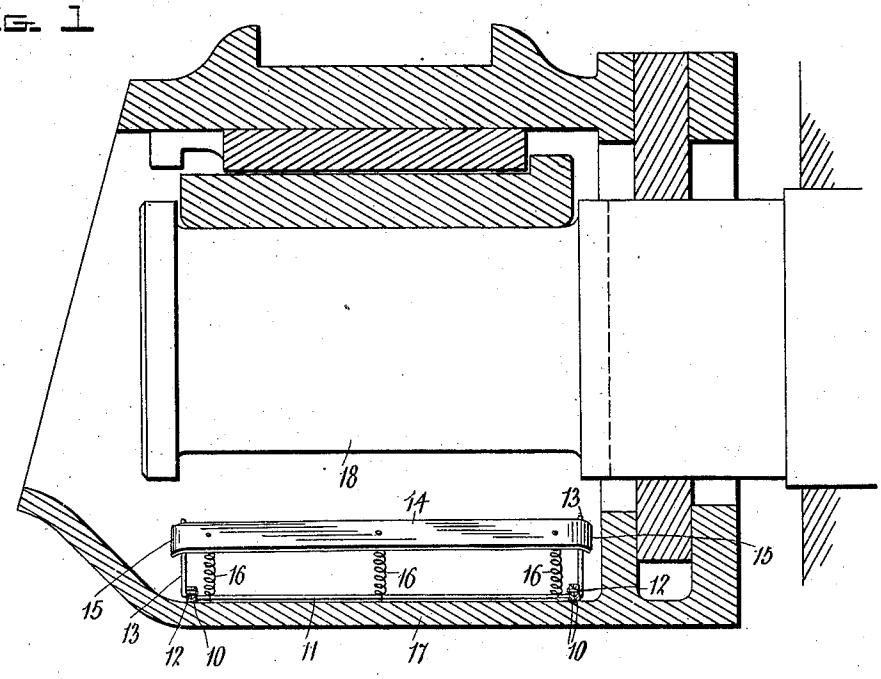
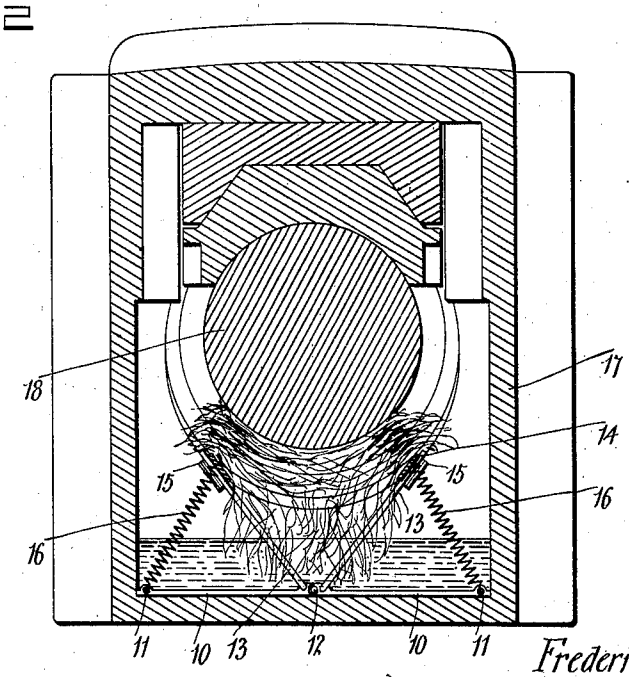


FIG. 2



Witnesses

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2 SHEETS—SHEET 2.

Fig. 3

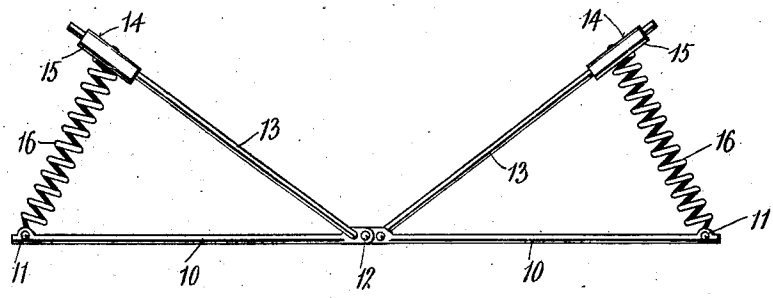


Fig. 4

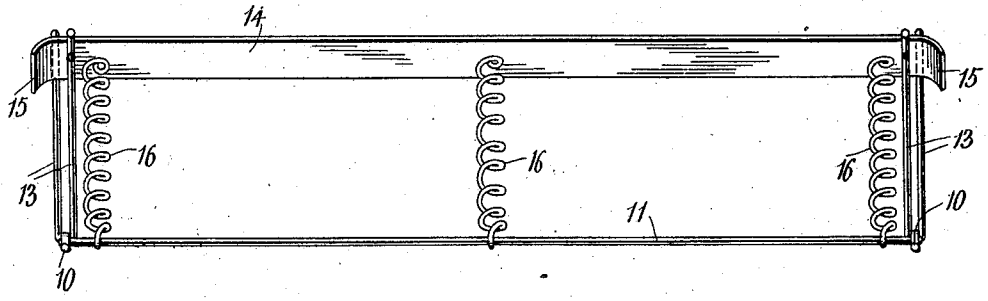
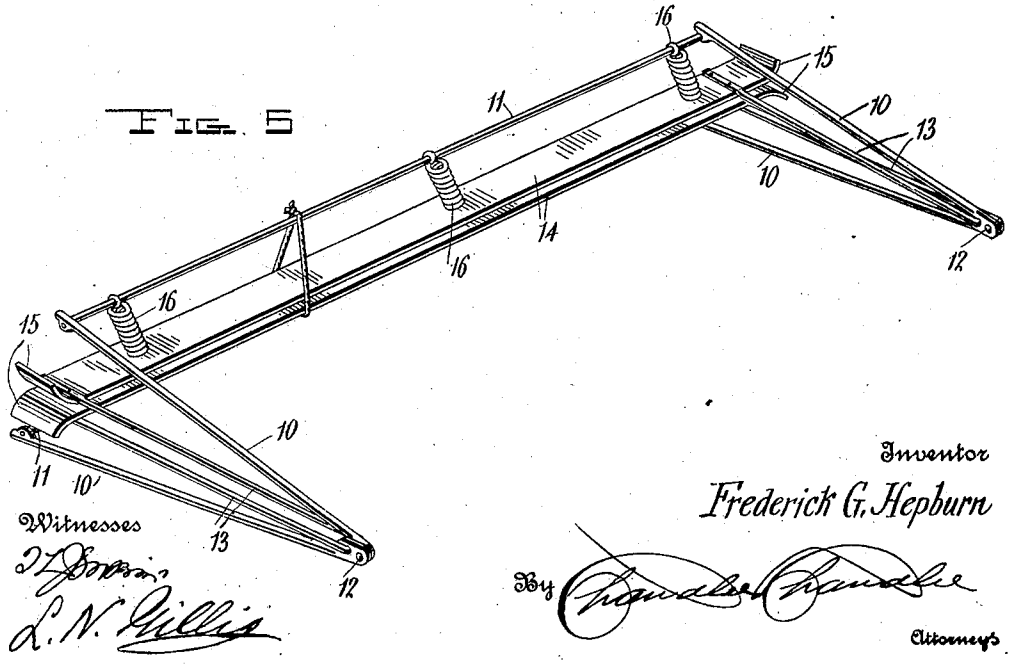


Fig. 5



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UNITED STATES PATENT OFFICE.

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WASTE-SUPPORTER.

991,302. Specification of Letters Patent. Patented May 2, 1911.

Application filed March 28, 1910. Serial No. 551,960.

To all whom it may concern:

Be it known that I, FREDERICK G. HEPBURN, a citizen of the United States, residing at Manchester Center, in the county of Bennington, State of Vermont, have invented certain new and useful Improvements in Waste-Supporters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to journal boxes such as are used on railroad cars, locomotives and the like, and it has special reference to a device for supporting the journal box packing against the under side of the car axle journal.

One object of the invention is to provide a light, simple and improved device for supporting journal box packing against car axle journals, the device being adapted to be folded for storing.

Another object of the invention is to provide a device of this character which may be readily flexed in order to permit its introduction into a journal box.

With the above and other objects in view, the invention consists in general of certain novel details of construction and combinations of parts hereinafter fully described, illustrated in the accompanying drawings, and specifically set forth in the claims.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and:—Figure 1 is a longitudinal section through a journal box equipped with this invention. Fig. 2 is a transverse section through such a box. Fig. 3 is an end view of the device removed from the box and opened out. Fig. 4 is a side elevation of the device. Fig. 5 is a view of the invention in its folded position.

This waste supporter comprises a pair of opposed bottom frames each of which consists of spaced legs 10 connected by a bar 11. The bottom frames thus formed are substantially U-shaped in plan and the extremities of the legs 10 of one frame are pivoted to the extremities of the legs 10 of the other frame as indicated at 12. Pivoted to each of the legs 10 adjacent the pivot points 12 are arms 13 and the arms of each frame are connected at their free ends by a resilient plate 14 having downwardly bent extremities 15. It is to be noted that the members 13 and 14 form what is preferably termed the top frame and that there are two of these top frames as well as two of the bottom frames previously referred to. A series of expansion springs 16 have their lower ends connected to the respective bars 11 and the upper ends of said springs are connected to the under sides of the respective plates 14. The combined width of the bottom frames is such that when the device is inserted in a journal box the ends of the legs 10 will contact with the sides of the box and prevent lateral displacement of the waste supporter, while the length is such as to extend the full length of the journal. These proportions can best be seen by reference to Figs. 1 and 2 wherein the journal box is indicated at 17 and the journal at 18.

In storing the device the bottom frames are folded together and the springs 16 compressed as clearly shown in Fig. 5. A suitable cord may then be tied around the bars 11 to hold the device in its collapsed position.

When it is desired to apply the invention to a journal box the same is unfolded and slipped into the box through the ordinary opening left therein. The flexibility of the plates 14 will permit their bending sufficiently to allow the introduction of the device. When the supporter has been introduced the box is packed with waste and the plates 14 will press this waste against the journal while the waste between the plates will extend down into the oil in the bottom of the box, thus feeding the oil up to the journal by capillary action.

There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

Having thus described the invention, what is claimed as new, is:—

1. In a device of the kind described, a pair of opposed bottom frames each consisting of a U-shaped member, the ends of the legs of the frames being pivoted to each other; a pair of top frames each including an arm pivoted to each leg of one of the bottom frames adjacent their connections with the legs of the opposed frame, and a resilient plate connecting the arms of each top frame and provided with downwardly turned ends; and springs held between each bottom frame and the resilient plates of a respective top frame.

2. The combination with a journal box and a car axle journal held therein; of

spaced pairs of bars, the bars of each pair being pivotally united and being when extended equal in length to the width of the journal box, other bars connecting the first-mentioned bars on each side of the pivot joints, arms pivotally connected to each of the bars of each pair, and resilient plates connecting the free ends of the arms on each side of the joints of the pairs of bars provided with downwardly turned ends, said plates being of a length sufficient to extend the full length of the journal carried in said box.

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

FREDERICK G. HEPBURN.

Witnesses:
GEORGE L. TOWSLEY,
EDWARD GRIFFITH.