No. 858,208. PATENTED JUNE 25, 1907.

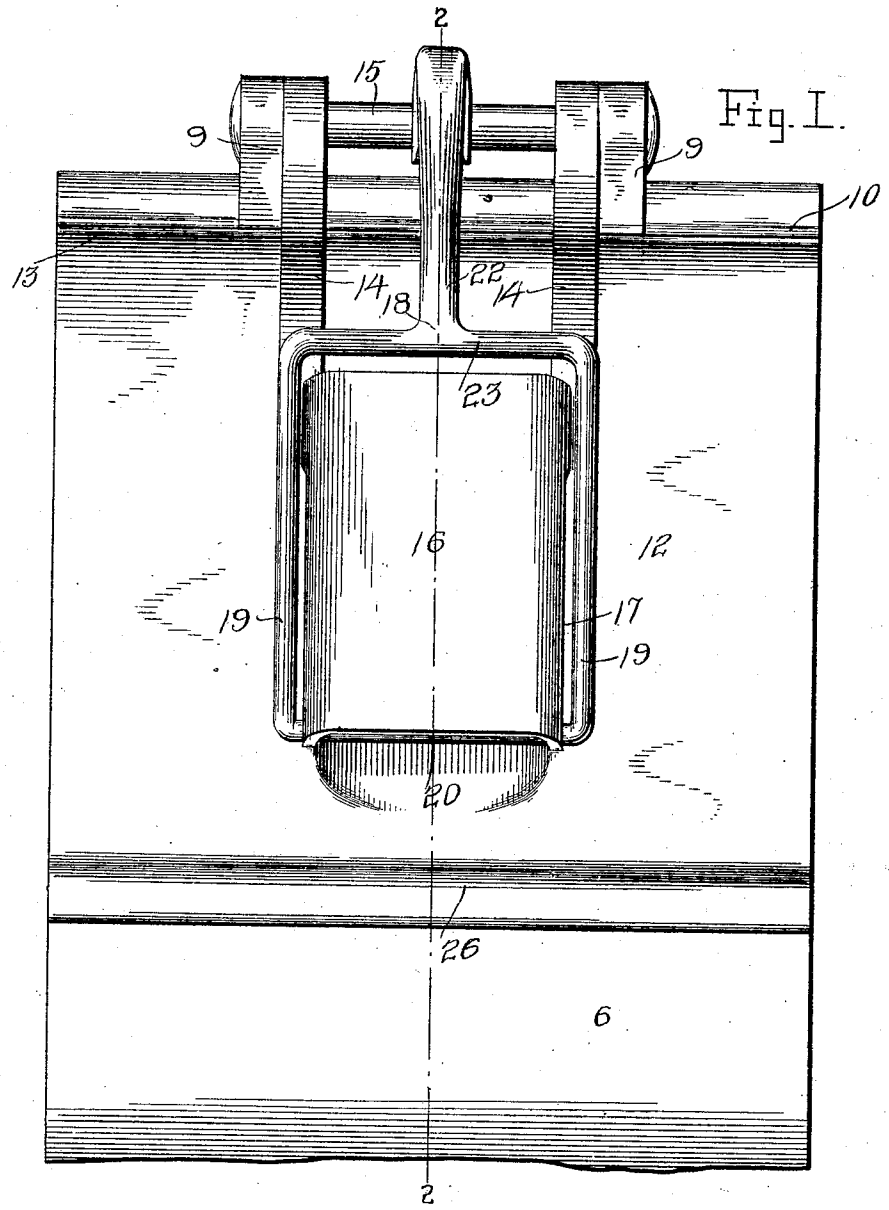
J. S. PATTEN.

JOURNAL BOX LID.

APPLICATION FILED JUNE 8, 1906.

2 SHEETS—SHEET 1.

Fig. I.



Witnesses
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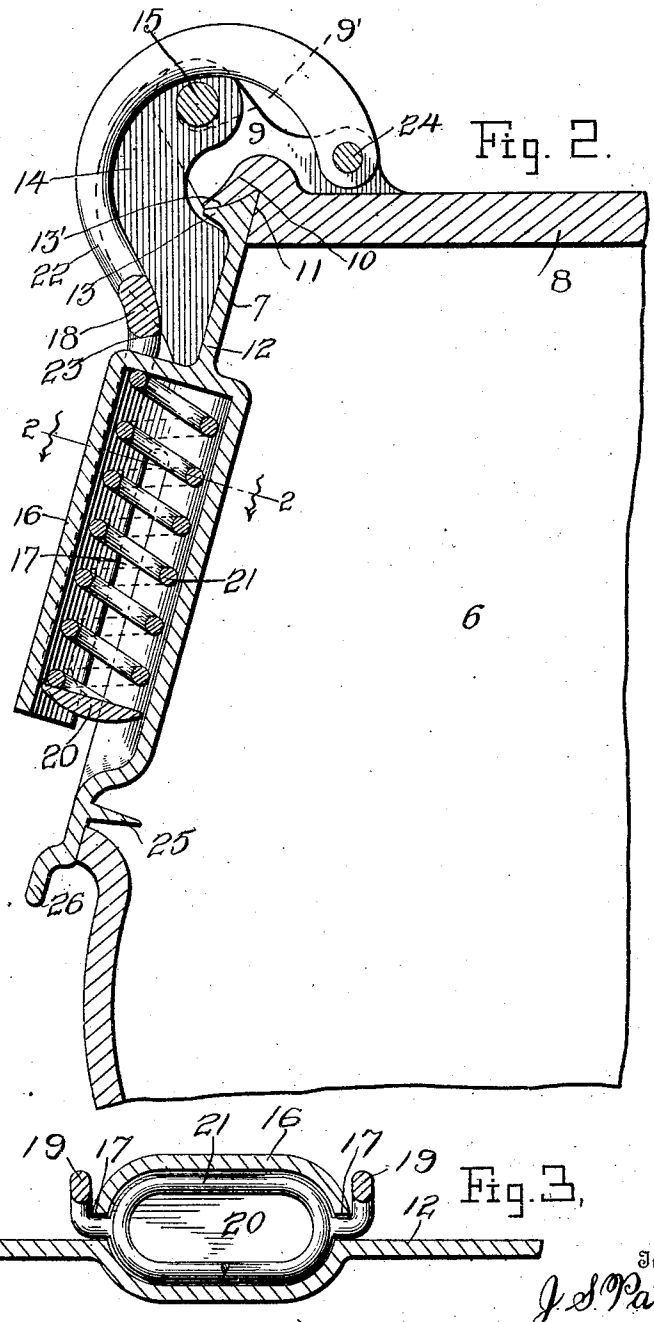


Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE.

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JOURNAL-BOX LID.

No. 858,208. Specification of Letters Patent. Patented June 25, 1907.

Application filed June 8, 1906. Serial No. 320,781.

To all whom it may concern:

Be it known that I, JAMES S. PATTEN, a citizen of the United States, residing at Baltimore city, in the State of Maryland, have invented certain new and useful Improvements in Journal-Box Lids; 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 railway journal boxes and more particularly to the lids thereof and the means for holding them in closed position, and has for its object to provide a journal box having a novel arrangement of lid, which will be an improvement over, while being somewhat similar to, the structure shown and described in my application filed June 5, 1905, Serial No. 263,799.

A particular object of the invention is to provide an arrangement of box and coöperating lid which will be such that a tight closure will be formed, to prevent the entrance of dust and foreign matter likely to cause wear of the journal.

Other objects and advantages will be apparent from the following description, and it is to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

In the drawings forming a portion of this specification and in which like numerals of reference indicate similar parts in the several views, Figure 1 is an elevational view of the box, shown in the closure. Fig. 2 is a vertical section on line 2—2 of Fig. 1. Fig. 3 is a cross section on line 2—2 of Fig. 2.

Referring now to the drawings, there is shown a journal box 6 having the usual opening 7 for the admission of waste and lubricant, this opening extending upwardly to the top 8 of the box. Formed upon the top, there are a pair of upwardly extending forwardly slanted ears 9, and between these ears there is formed upon the top a lip 10 which extends forwardly and downwardly over the forward edge of the top throughout the entire width of the opening 7, so that there is formed between this lip and the forward edge of the top a socket 11, for a purpose to be presently described. The rearward wall of this socket, as shown, extends in the plane of the opening, while the forward wall thereof extends diagonally downwardly and outwardly and has a slight curvature.

A lid 12 is provided and is of a size to close the opening 7, this lid resting upon the portions of the box which surround the opening, and extending at its upper edge into the socket 11, the other portion of the lid having a forwardly extending lip 13 having an upper forward surface 13′ shaped to conform to the inner surface of the lip 10, which forms the forward wall of the socket 11. The lip 10 thus extends over the upper edge of the lid 12 and downwardly thereover, to prevent the passage of foreign matter into the box between the upper portion of the lid and the top 8. The lid 12 is supported by upwardly extending lugs 14 formed thereupon, and lying between the ears 9 for the reception with these ears of a horizontal pivot rod 15, the openings 9′ of the ears 9 in which the pivot rod is received, being slightly larger than the rod, to permit of some sliding movement of the parts with respect to each other, and an arrangement is provided to hold the parts yieldably against such sliding movement, to prevent rattling and to maintain a tight union of the lid with the box.

A hollow, transversely elongated enlargement 16 is formed in the lid 12, and is open at its bottom, this enlargement extending at right angles to the upper edge of the lid and projecting beyond both the inner and outer surfaces of the lid, the elongation of the enlargement extending transversely of the opening 7, and registering longitudinal slots 17 are formed in the sides of this enlargement, the inner walls of these slots lying flush with the outer surface of the lid.

A stirrup member 18 has the lower ends of its legs 19 turned to extend through the slot 17, where they join the foot 20 of the stirrup, the foot lying within the enlargement 16, and the size of the legs 19 with respect to the slots 17 is such that some rocking movement of the foot piece 20 is permitted, so that the stirrup is both pivotally and slidably connected with the enlargement, and to hold the stirrup yieldably against upward sliding movement, a spring 21 having elongated helices in conformity with the elongation of the enlargement is disposed within the enlargement between the upper ends thereof and the foot piece 20 of the stirrup. A stem 22 is carried by the bight 23 of the stirrup

which connects the upper ends of the legs 19, and this stem is hooked rearwardly over the forward portion of the top 8 of the box and is pivoted upon a rod 24 engaged in the rearward portions of the ears 9.

An inwardly extending flange 25 is carried by the lower portion of the lid, and the lower edge portion thereof is turned outwardly and downwardly, as shown at 26, to facilitate raising of the lid.

It will be seen that when the lid 12 of the box first described is swung from open into closed position, slight pivotal movement of the stirrup with respect to the lid will take place, and the spring 21 will act to not only force the lid downwardly, but to raise the lid as well, so that its upper portion will be brought to fit snugly within the socket 11.

What is claimed is:—

1. The combination with a journal box having an opening therein, of a lid for said opening hinged to the box to close said opening with its upper edge in contact with the adjacent face of the box, a slotted housing carried by the lid, a spring within the housing, and a stirrup pivoted to the box and embracing the housing, said stirrup including a member lying in the slots of the housing and against the spring.

2. The combination with a journal box having an opening therein, of a lid for said opening arranged for sliding movement, a stirrup pivoted to the box and slidably connected with the lid, and a spring engaged between the foot piece of the stirrup and a portion of the lid and arranged to hold the lid yieldably against sliding movement.

3. The combination with a journal box having an opening therein, of a lid for said opening hinged to the box to close said opening with its upper edge in contact with the adjacent face of the box, a stirrup pivoted to the box and slidably and pivotally connected with the lid, and a spring disposed between the foot-piece of the stirrup and a portion of the lid thereabove.

4. The combination with a journal box having an opening therein, of a lid for said opening hinged to the box to close said opening with its upper edge in contact with the adjacent face of the box, said lid being also bodily movable with its upper edge into and out of said contact, said lid having a housing provided with a guide slot in its sides, a stirrup comprising legs embracing the housing, a foot-piece connecting the legs and lying in the housing and in the slots thereof, and a spring disposed between the upper end of the housing and the foot-piece of the stirrup, said stirrup comprising a stem pivotally connected with the box.

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

JAMES S. PATTEN.

Witnesses:
GEO. H. CHANDLEE,
JOS. H. BLACKWOOD.