J. E. OSMER.

JOURNAL BOX.

APPLICATION FILED SEPT. 21, 1908.

975,449. **Patented Nov. 15, 1910.**

Fig. 1.

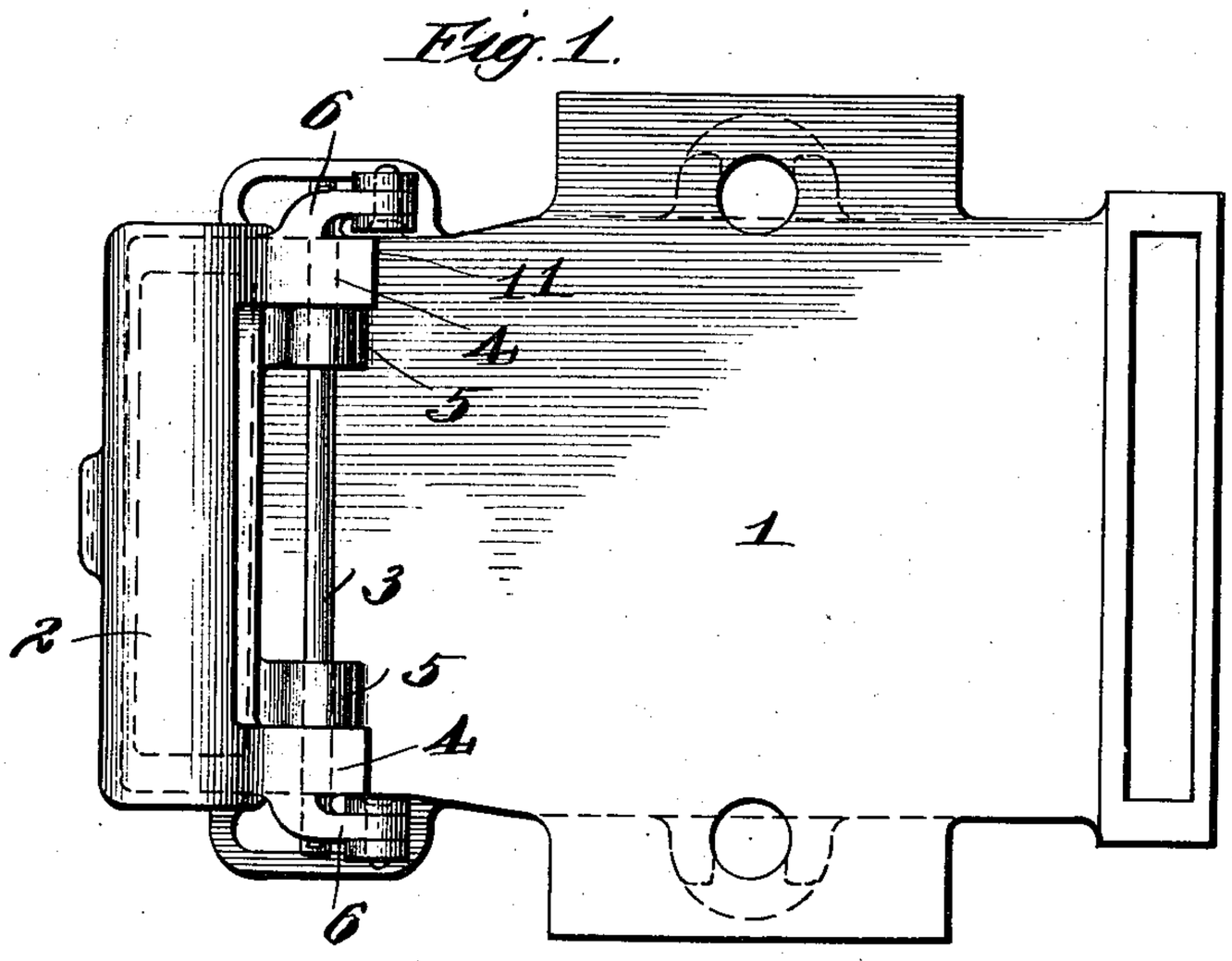
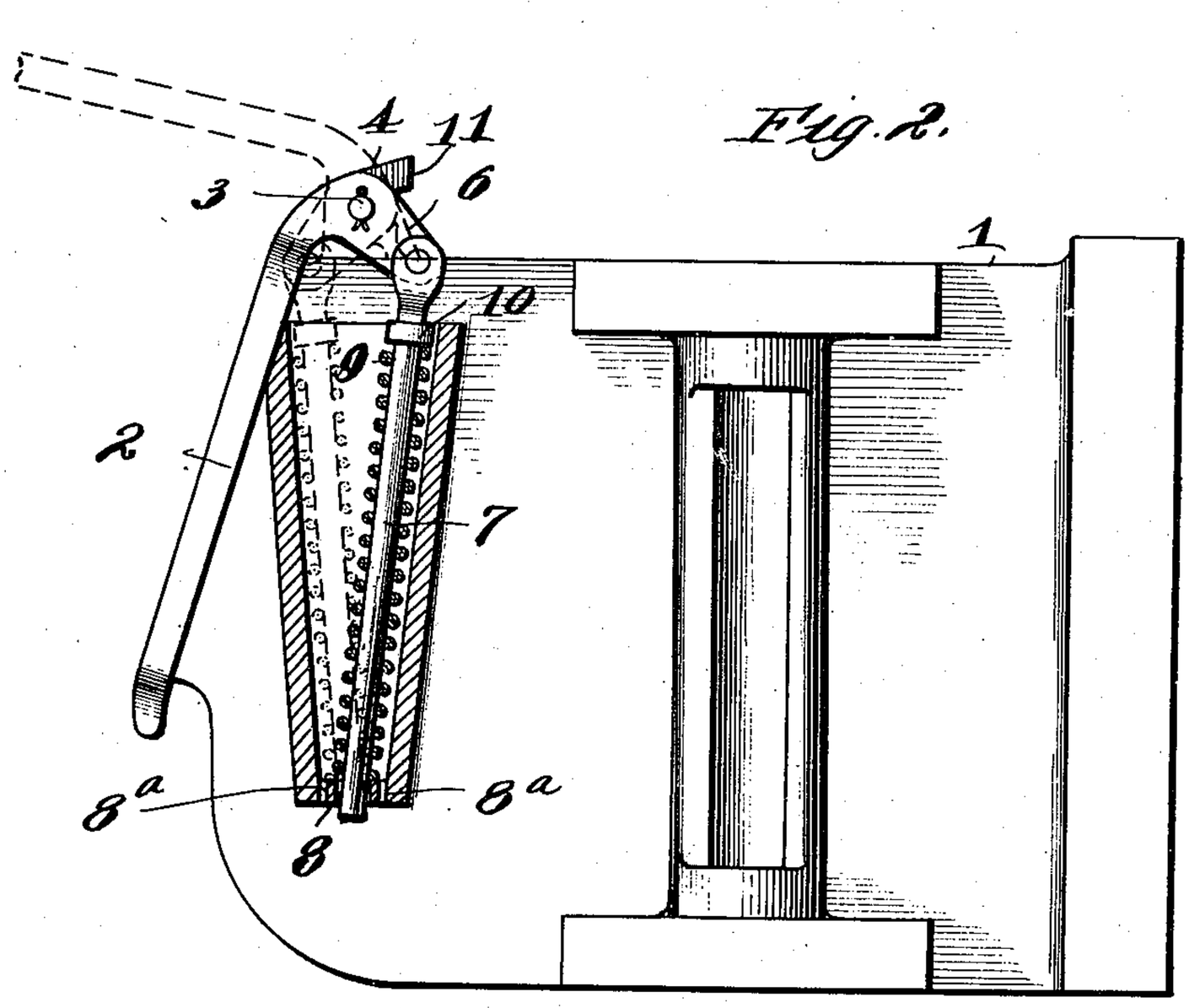


Fig. 2.



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JOURNAL-BOX.

975,449. Specification of Letters Patent. Patented Nov. 15, 1910.

Application filed September 21, 1908. Serial No. 453,985.

To all whom it may concern:

Be it known that I, JOHN E. OSMER, 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, of which the following is a specification.

The invention relates particularly to the journal boxes of railway cars.

The object of the invention is to provide an improved cover or lid for a journal box.

In the accompanying drawings, Figure 1 is a top plan view of one form of journal box embodying the features of my invention. Fig. 2 is a side elevation of the box, portions being shown in section.

In the embodiment which has been selected for the purpose of illustrating the invention, the journal box 1 is provided with a cover or lid 2 which is pivotally attached to the box in any suitable way, such as by means of a pin 3 extending through lugs 4 and 5 upon the cover and the box, respectively. A means is provided for holding the cover in open and closed positions, which means, in this instance, comprises an arm 6 fixed with relation to the cover 2 at each side thereof, each of said arms being pivotally connected with a rod 7 that lies within a housing upon the journal box and extends loosely through an opening 8 in said housing, whereby said rod is pivotally mounted in the housing. Surrounding the rod 7 is a coiled spring 9 which bears at one end against the bottom of the housing, and at its other end against a collar or shoulder 10 on the rod 7. The upper end of the housing, in this instance, is open.

8^a are drain openings.

The opening movement of the cover 2 is limited by suitable means such as stops 11 fixed to the cover and arranged to impinge upon the top of the journal box. When the cover is in the position shown in full lines in Fig. 2, the spring 9 exerts its force upward on the arm 6, at one side of the axis 3 of the cover, to hold the latter tightly closed. When the cover is raised upward against the action of said spring into the position shown in dotted lines in Fig. 2, the point of pivotal connection between the arm 6 and the rod 7 passes to the other side of the axis 3, whereupon the spring 9 serves to hold the cover in the raised position.

I claim as my invention:

1. The combination, with a journal box having a top wall and vertical side walls, of a pivotally mounted lid for closing an opening in the forward side of the box, said lid having a crank arm fixed thereto at one side of the lid; a rod attached at its upper end to said arm; a perforated portion on the outside of one of the side walls of the box, through which portion the lower end of said rod extends, said perforated portion forming a fulcrum for said rod, said rod having a shoulder on its upper portion, and a coiled spring surrounding said rod and bearing at one end against said shoulder and at the other end against said perforated portion.

2. The combination, with a journal box having a top wall and vertical side walls, of a pivotally mounted lid for closing an opening in the forward side of the box, said lid having an arm at one side thereof; a housing on the outer side of one of the side walls of the box; a rod connected to said arm and pivotally supported within said housing, said rod having a shoulder thereon; a coiled spring surrounding said rod and bearing at one end against said shoulder and at the other end against the bottom of the housing, said arm being arranged to throw to opposite sides of its pivot; and a stop attached to said lid.

3. The combination, with a journal box having a top wall and vertical side walls and an opening in its forward side, said top wall having pintle-supporting means near its forward edge, of a lid for closing said opening, said lid having pintle-engaging means upon its upper edge; a pintle extending through said pintle-supporting means and pintle-engaging means; a stop fixed with relation to said lid and adapted to contact said top wall to limit the opening movement of the lid; a crank arm fixed to said lid near its axis of oscillation and at one side edge of the lid; a rod movably attached at its upper end to said arm; a portion on the outer side of one of the side walls through which said rod extends loosely and by which it is pivotally connected to the box; and a coiled spring surrounding said rod and interposed between said portion and the upper part of said rod, said spring being arranged to throw said crank arm to either side of its pivotal center.

4. The combination, with a journal box, of a pivotally mounted lid having a crank arm at one end thereof; a housing on one side of the box, said housing having an open-

ing in its lower end, upwardly flaring walls, and an open upper end; a rod connected at its upper end to said crank arm, said rod extending through said housing and its lower end lying in the opening in the lower end of said housing, said rod having a shoulder thereon; a coiled spring surrounding said rod and bearing at one end against said shoulder and at its other end against the bottom of said housing, said arm being arranged to throw to opposite sides of its pivot; and a stop attached to said lid.

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Witnesses:
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