C. A. LINDSTRÖM.

JOURNAL BOX LID.

APPLICATION FILED APR. 8, 1908.

931,442. Patented Aug. 17, 1909.

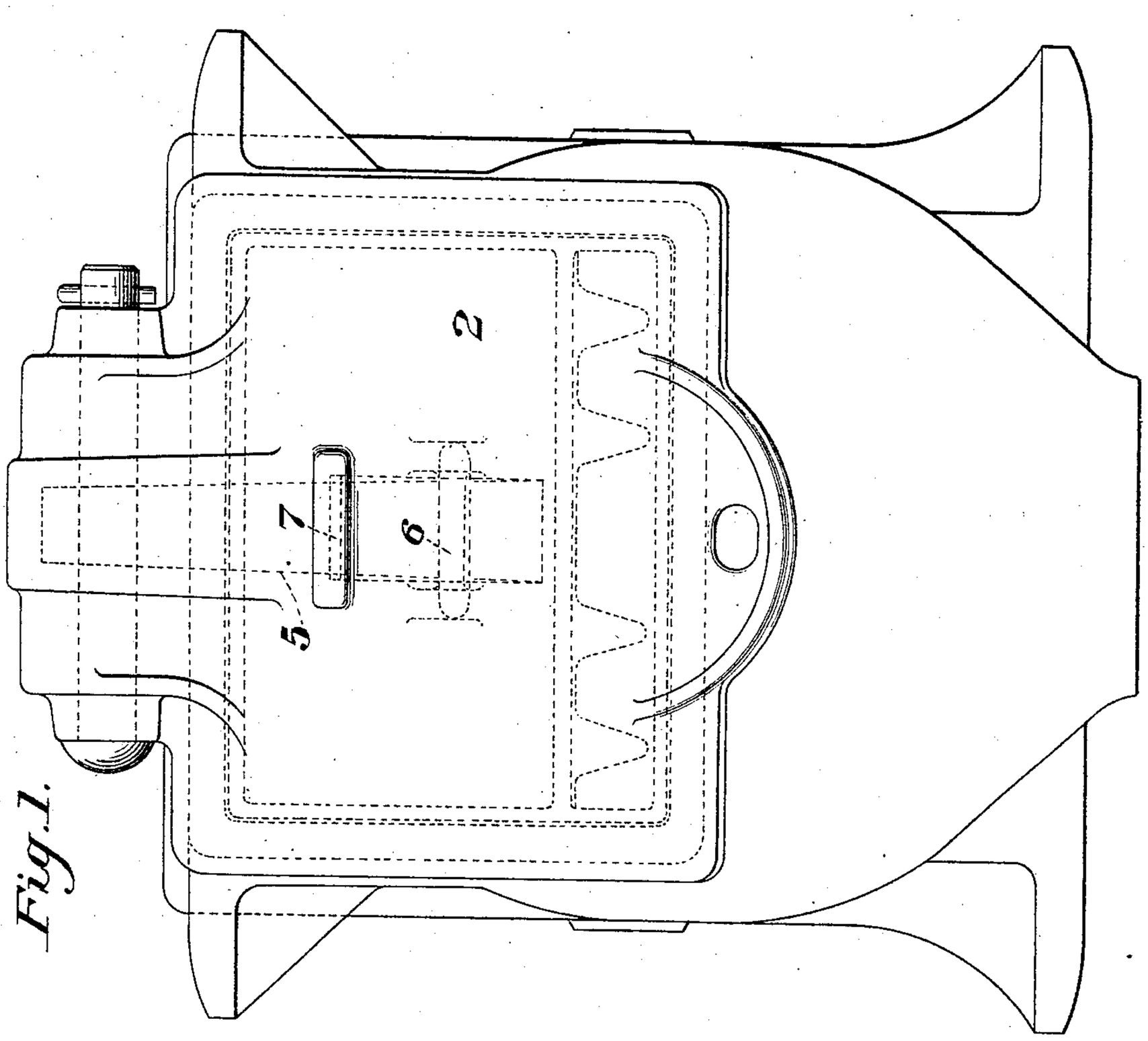

Fig. 1.

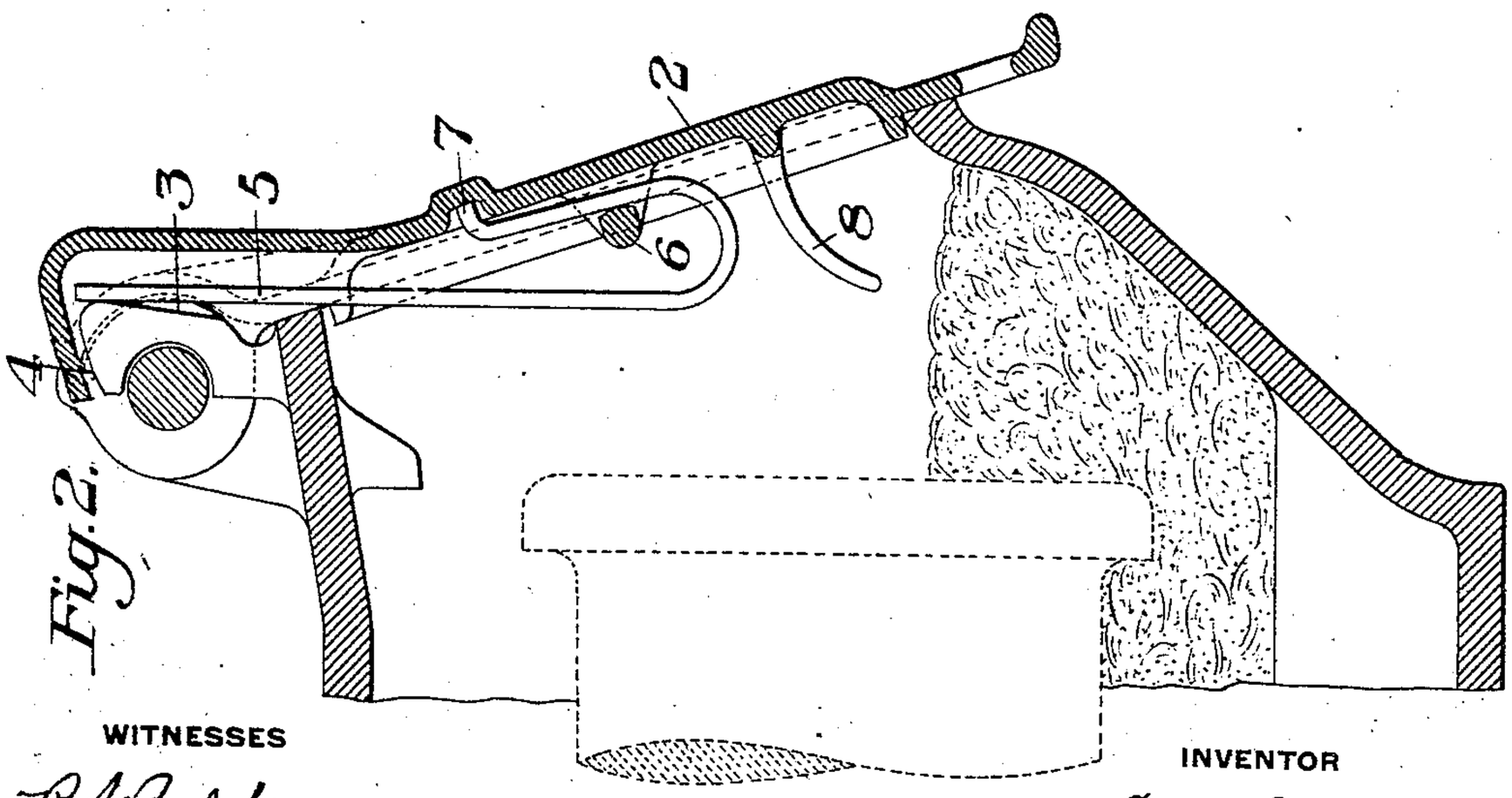

Fig. 2.

WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES A. LINDSTRÖM, OF ALLEGHENY, PENNSYLVANIA.

JOURNAL-BOX LID.

No. 931,442. Specification of Letters Patent. Patented Aug. 17, 1909.

Application filed April 8, 1908. Serial No. 425,845.

To all whom it may concern:

Be it known that I, CHARLES A. LINDSTRÖM, of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Journal-Box Lids, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevation of a journal box provided with my improved lid; and Fig. 2 is a vertical cross section of a lid and a portion of the box.

My invention relates to journal box lids suitable for the standard Master Car Builders' journal box, in which the spring holding the lid in open and closed positions is of an improved form to decrease breakage and give a more even pressure in all positions.

The invention also relates to providing for leading the oil splashed on the lid back into the waste in the box.

The front of the box may be of the usual M. C. B. type, with the hinged portion having flat faces 3 and 4, against which the spring presses to hold the lid in both open and closed positions. The lid may be cast or pressed to shape, as preferred. In order to overcome the frequent breakage of the straight spring ordinarily used in the M. C. B. type of lid, it is important to provide a longer spring in order to give the necessary deflection without overstraining the spring material. I preferably make this spring of approximately U-shape, with the upper portion of its longer leg 5 contacting with either of the flat hinged faces, while the shorter leg extends up between the securing lug 6 and the inner face of the lid and is preferably provided with a bent end portion 7, entering an internal recess in the lid. The pressure of the spring will hold it in place, and its flexibility, resulting from its form and length, practically prevents breakage which often occurs with the ordinary straight spring extending over the hinged portion down along the inner face of the lid and secured to it. Other securing means may be employed for this reflex spring without departing from my invention.

I preferably cast the lid with fingers 8, projecting inwardly from its inner face. These fingers may be cast at right angles to the lid and then bent down into the form shown after malleabilizing. These operate to lead oil which is splashed on to the lid back into the waste in the box.

The advantages of my invention result from the peculiar form and fastening of the spring and from the use of the oil fingers. The peculiar form of spring on the inside of the lid reduces the amount of spring breakage and gives a more uniform pressure through the opening and closing movements, the internal lips or fingers 8 on the lid leading the oil back into the waste in the box.

The lid may be used on different journal boxes of the M. C. B. type, the spring may be used on any lid adapted to boxes of the M. C. B. type and may be arranged in various ways, and other changes may be made without departing from my invention.

I claim:

1. In a journal box having a lid, a holding device on the upper portion of the lid, a reflex spring having its reflex portion bent to engage said holding device and means below said holding device surrounding the reflex portion of said spring to detachably hold the spring in engagement with said holding device.

2. A journal box in combination with a lid formed with a securing device on the upper part of its inner face, a reflex spring having its reflex portion bent to engage said securing device and means formed on the inner face of said lid below said securing device to detachably hold said spring in engagement with said securing device.

3. A journal box in combination with a lid formed with a recess in its upper portion, an eyelet below said recess, and a reflex spring having its reflex portion passed upwardly through said eyelet and bent to engage said recess to detachably secure said spring to said lid.

4. A journal box in combination with a lid formed with a recess in the upper portion of the inner face of said lid and an eyelet below said recess, and a reflex spring having its reflex portion passed upwardly through said eyelet and bent to engage said recess to detachably secure said spring to said lid.

5. In a journal box in combination with a lid formed with a recess on its upper portion and an eyelet formed below said recess, a reflex spring having its reflex portion passed through said eyelet and engaging said recess and its main portion extending over said eyelet and engaging the journal box.

In testimony whereof, I have hereunto set my hand.

CHARLES A. LINDSTRÖM.

Witnesses:
T. J. JONES,
H. B. FISHER.