

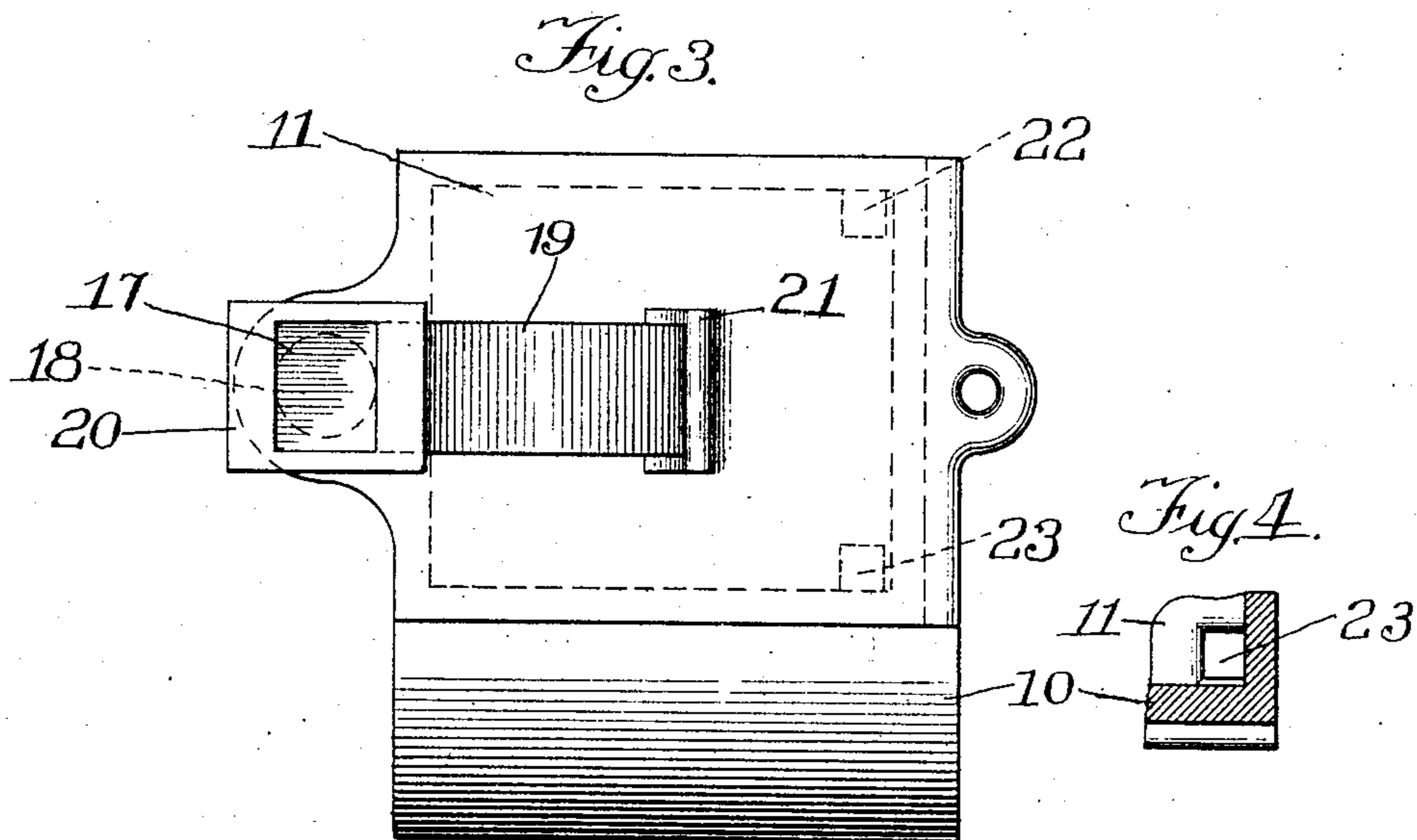
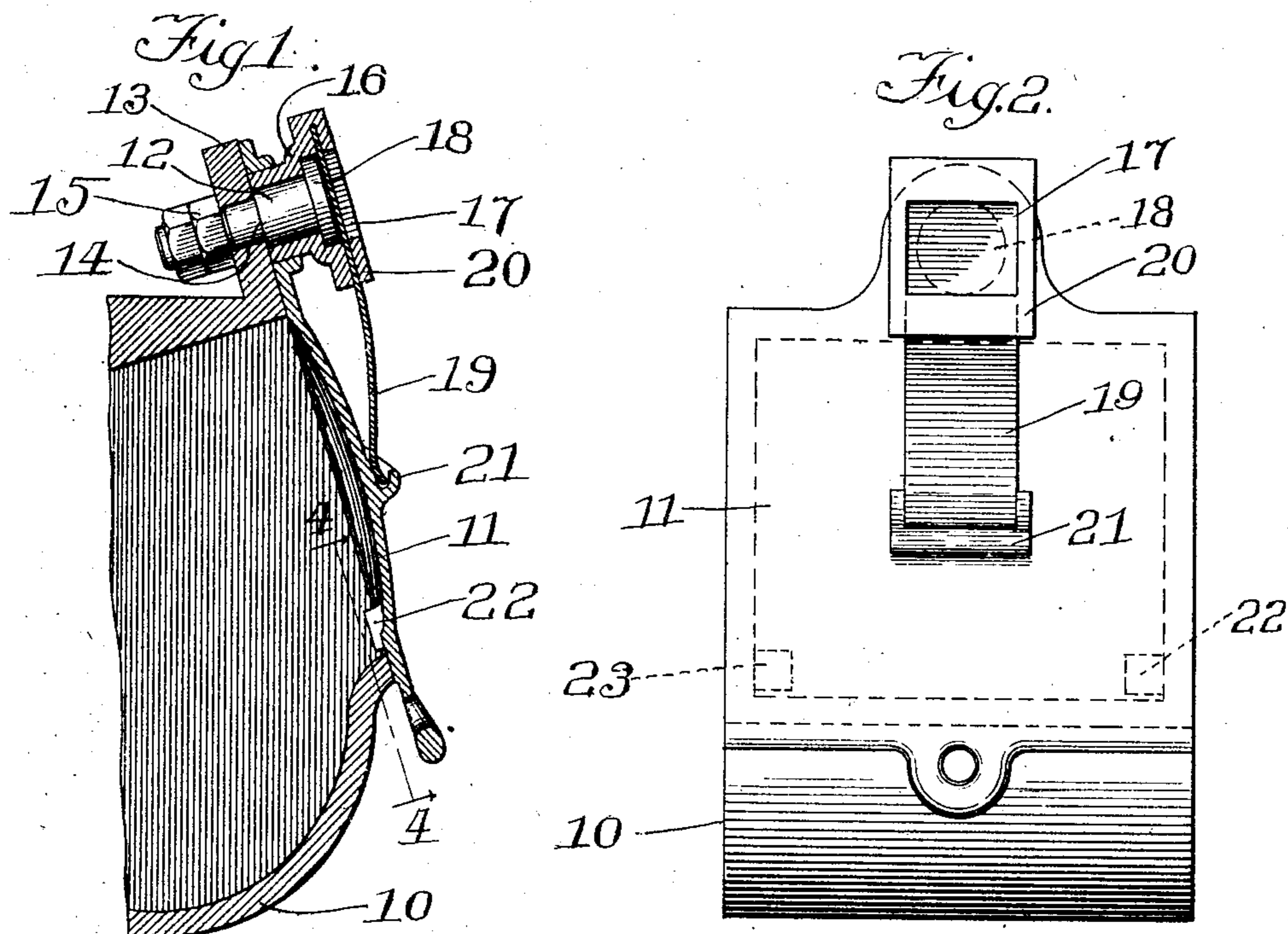
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H. C. WILLIAMSON & H. PRIES.

JOURNAL BOX COVER.

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UNITED STATES PATENT OFFICE.

HENRY C. WILLIAMSON AND HERMAN PRIES, OF MICHIGAN CITY,
INDIANA.

JOURNAL-BOX COVER.

SPECIFICATION forming part of Letters Patent No. 785,927, dated March 28, 1905.

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To all whom it may concern:

Be it known that we, HENRY C. WILLIAMSON and HERMAN PRIES, citizens of the United States, and residents of Michigan City, county of Laporte, and State of Indiana, have invented certain new and useful Improvements in Journal-Box Covers, of which the following is a specification and which are illustrated in the accompanying drawings, forming a part thereof.

The invention relates to covers for car journal-boxes, and more specifically to covers so pivoted as to swing laterally as distinguished from the lift form of cover.

The object of the invention is to provide a simple yet efficient form of cover and a hinge and spring therefor which shall be easily assembled and possess requisite strength.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a detail longitudinal section of a journal-box and its cover. Fig. 2 is a front elevation of the same. Fig. 3 is a front elevation of a journal-box of slightly-modified form, and Fig. 4 is a detail section on the line 4-4 of Fig. 1.

The journal-box is shown at 10 and is of ordinary construction, having the usual front aperture through which the absorbent packing and the lubricant are introduced. The cover 11 for this aperture is swiveled upon a pivot-bolt 12, set through a lug 13, rising from the box 10, the bolt 12 being shouldered, as shown at 14, to take a bearing on the lug 13, and provided with nuts 15, drawing the shoulder securely to its seat. The bearing of the cover 11 is upon a sleeve 16, fitting upon the body of the pivot-bolt 12 and countersunk, as shown at 17, to receive the head 18 of the bolt.

A leaf-spring 19 is seated within a socket extending inwardly from one side of the head 20 of the sleeve 16 and crossing the counter-bore thereof, within which the head 18 of the pivot-bolt is seated, the depth of this counter-bore being such that the spring may be inserted into its socket and cover the head of the bolt. The free end of the spring 19 is seated in a socket 21 at the center of the cover

11, and as the spring bows inwardly its pressure forces the cover to its seat upon the end of the box and being applied centrally to the cover insures a close fit at all portions of the seat.

Lugs 22 23 are formed on the inner face of the cover 11 and are so spaced as to engage the inner walls of the box when the cover is closed, thereby preventing the cover from being accidentally opened. The pivot-joints are sufficiently loose to allow the cover to be raised enough to permit the lugs 22 and 23 to pass the cover-seat when it is desired to open or close the box.

It is immaterial at which side of the box-aperture the pivot for the cover is located. It is shown in Figs. 1 and 2 as being placed at the top of the box and in Fig. 3 at one side thereof.

We claim as our invention—

1. In a journal-box cover, in combination, a pivot-bolt adapted to be secured to a journal-box and having a shoulder for bearing against the face of the box; a headed sleeve fitting loosely on the bolt and countersunk to receive its head and having a socket extending transversely within its head; a cover apertured to fit upon the body of the sleeve; and a bow-spring having one end seated within the socket of the sleeve and the other end bearing on the cover.

2. In a journal-box cover, in combination, a pivot-bolt adapted to be secured to a journal-box; a headed sleeve fitting loosely on the bolt and countersunk to receive its head and having a socket extending transversely within its head; a cover apertured to fit upon the body of the sleeve; and a bow-spring having one end seated within the socket of the sleeve and the other end bearing on the cover.

3. In a journal-box cover, in combination, a pivot-bolt adapted to be secured to a journal-box; a headed sleeve fitting loosely on the bolt and countersunk to receive its head; a cover apertured to fit upon the body of the sleeve; and a bow-spring having one end secured to the sleeve and the other end bearing on the cover.

4. In a journal-box cover, in combination,

a pivot-bolt adapted to be secured to a journal-box; a headed sleeve fitting loosely on the bolt; a cover apertured to fit upon the body of the sleeve; and a bow-spring having one
5 end secured to the sleeve and the other end bearing on the cover.

5. In a journal-box cover, in combination, a cover-plate; a pivot for securing the cover to a box to allow it to swing laterally; a

spring bearing the cover against its seat, and 10
a lug formed on the inner face of the cover for engaging the side wall of the box-aperture.

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