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JOURNAL BOX LID

Filed June 9, 1924

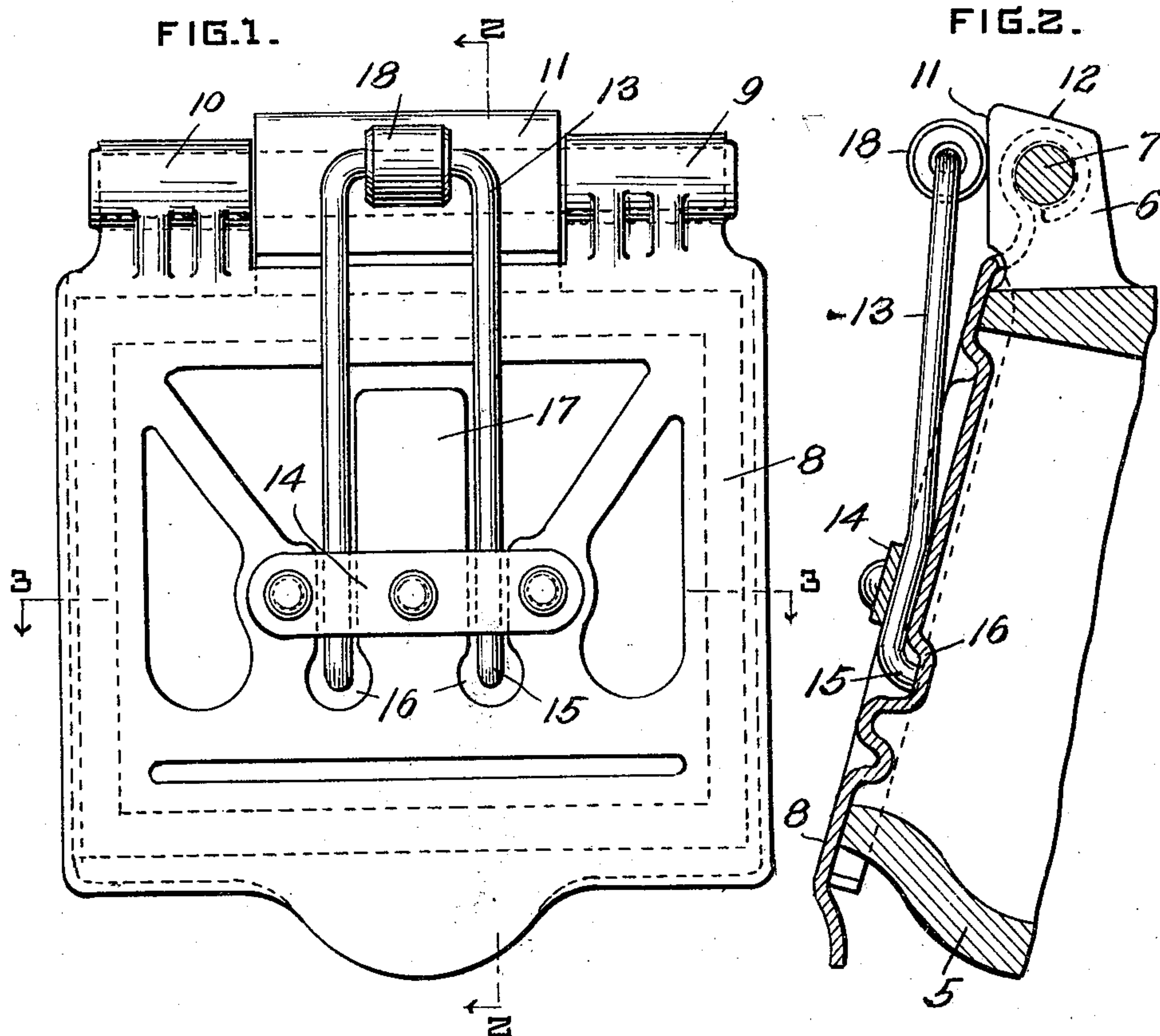
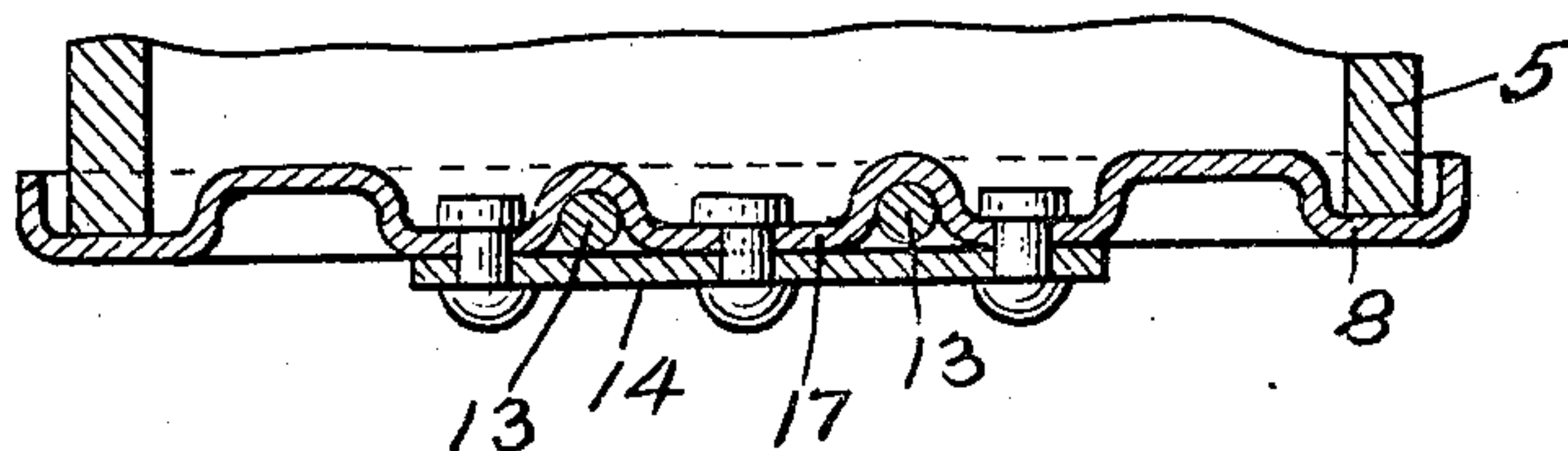


FIG. 3.



WITNESSES
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LEIGH W. HOSTETTLER, OF TARENTUM, PENNSYLVANIA, ASSIGNOR TO ALLEGHENY STEEL COMPANY, OF BRACKENRIDGE, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

JOURNAL-BOX LID.

Application filed June 9, 1924. Serial No. 718,739.

This invention relates to journal boxes and more particularly to journal box lids and closing means therefor.

Journal box lids as heretofore generally manufactured have been provided with flat leaf springs which were secured to the lid and cooperated with a part of the box to hold the lid in either open or closed position. In such constructions there is an undesirable drag between the spring and the bearing faces on the box with which the spring cooperates.

An object of this invention is to provide a journal box lid, having a spring for holding it in either open or closed position, of such form that it entirely overcomes all drag between the spring and box with a corresponding reduction in the wear on these parts.

A further object is to provide a journal box lid which is simple and rugged in construction, positive in operation and cheap to manufacture.

These as well as other objects which will be apparent to those skilled in this particular art, are attained by means of this invention, one embodiment of which is shown, for the purposes of illustration, in the accompanying drawings in which Figure 1 is a front elevation of a journal box lid constructed in accordance with this invention. Fig. 2 is a vertical section on the line 2—2 of Fig. 1 and Fig. 3 is a horizontal section on the line 3—3 of Fig. 1.

The illustrated embodiment of my invention is shown as applied to a standard A. R. A. journal box 5 having the usual box lug 6 which is perforated to receive a hinge pin 7. The box lid 8 has scrolls 9 and 10 at each side of the top thereof which receive the hinge pin 7, in order to hinge the lid to the journal box. The box lug 6 is provided with the usual horizontal and vertical bearing faces 11 and 12 respectively.

A U-shaped spring 13 of any desired cross section, but preferably round, as shown, is secured to the outer face of the box lid by means of a strap member 14 which is riveted to the lid and which extends across the parallel arms of the U-shaped spring member 13 adjacent the lower end thereof. The ends

of the spring member are bent at substantially right angles, so as to form projections or feet 15 which are received in depressions 16 formed in the face of the box lid below the strap member 14. A ridge 17 is formed on the box face between the arms of the U-shaped spring member 13 and cooperates with the strap member 14 and depressions 16 to rigidly hold the spring in correct position on the lid.

The other end of the spring has a roller 18 rotatably mounted thereon and adapted to bear upon one or the other of the box lug bearing faces 11 and 12.

In raising the lid 8 from the closed position illustrated to the open position, the roller 18 will ride over the bearing face 11 and onto the bearing face 12 in which position the spring will hold the lid in open position. Obviously, the roller reduces wear upon the bearing faces and on the spring and entirely does away with any drag between the spring and bearing faces.

A U-shaped spring of the type described can be manufactured from ordinary carbon steel and all objectionable drag between the spring and the box lug bearing faces is entirely eliminated, with the corresponding reduction in wear and increase in the life of the spring.

Having thus described one embodiment of my invention, what I claim as new and desire to secure by Letters Patent is:

1. The combination with a journal box of a lid hinged thereto, and provided with depressions in the surface thereof, a spring having depression engaging projections mounted on said lid and provided with a roller bearing member for cooperating with said box so as to maintain said lid in either open or closed position and a strap member engaging said spring for securing the same to said lid.

2. The combination with a journal box of a lid hinged thereto and provided with depressions in the surface thereof and a U-shaped spring having depression engaging projections mounted on said lid and a roller mounted on said spring and cooperating with said box so as to maintain said lid in either open or closed position.

3. The combination with a journal box of
a lid hinged thereto and provided with de-
pressions in the surface thereof, a U-shaped
spring having depression engaging projec-
5 tions mounted on said lid, a roller mounted
on said spring and cooperating with said
box so as to maintain said lid in either open

or closed position and a strap member en-
gaging the arms of said U-shaped spring
for securing the same to said lid.

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In testimony whereof, I have hereunto
subscribed my name this 5th day of June,
1924.

LEIGH W. HOSTETTLER.