

W. CAMPBELL.  
Car-Axle Box.

No. 93,858.

Patented Aug. 17, 1869.

Fig. 1

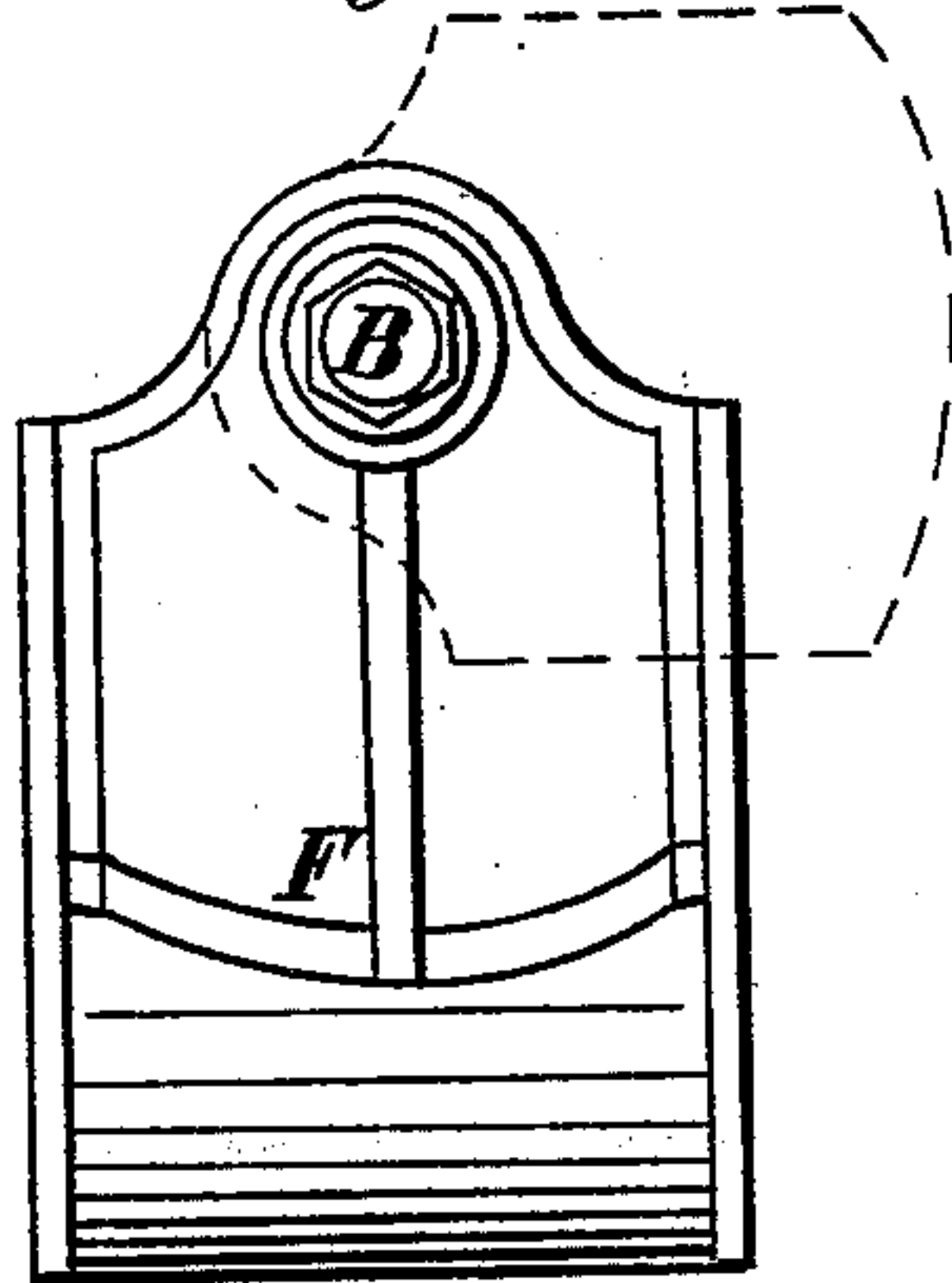


Fig. 2

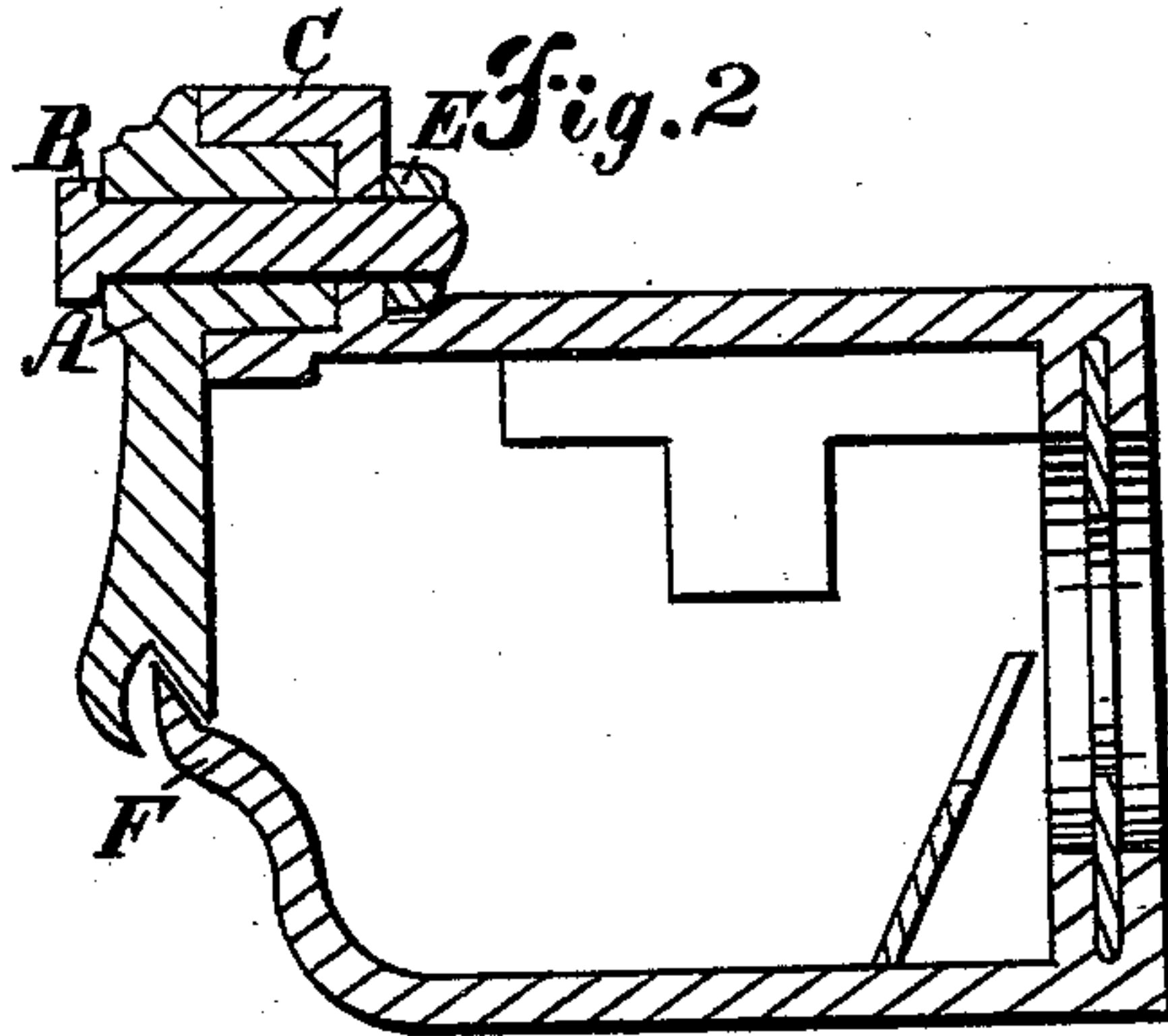
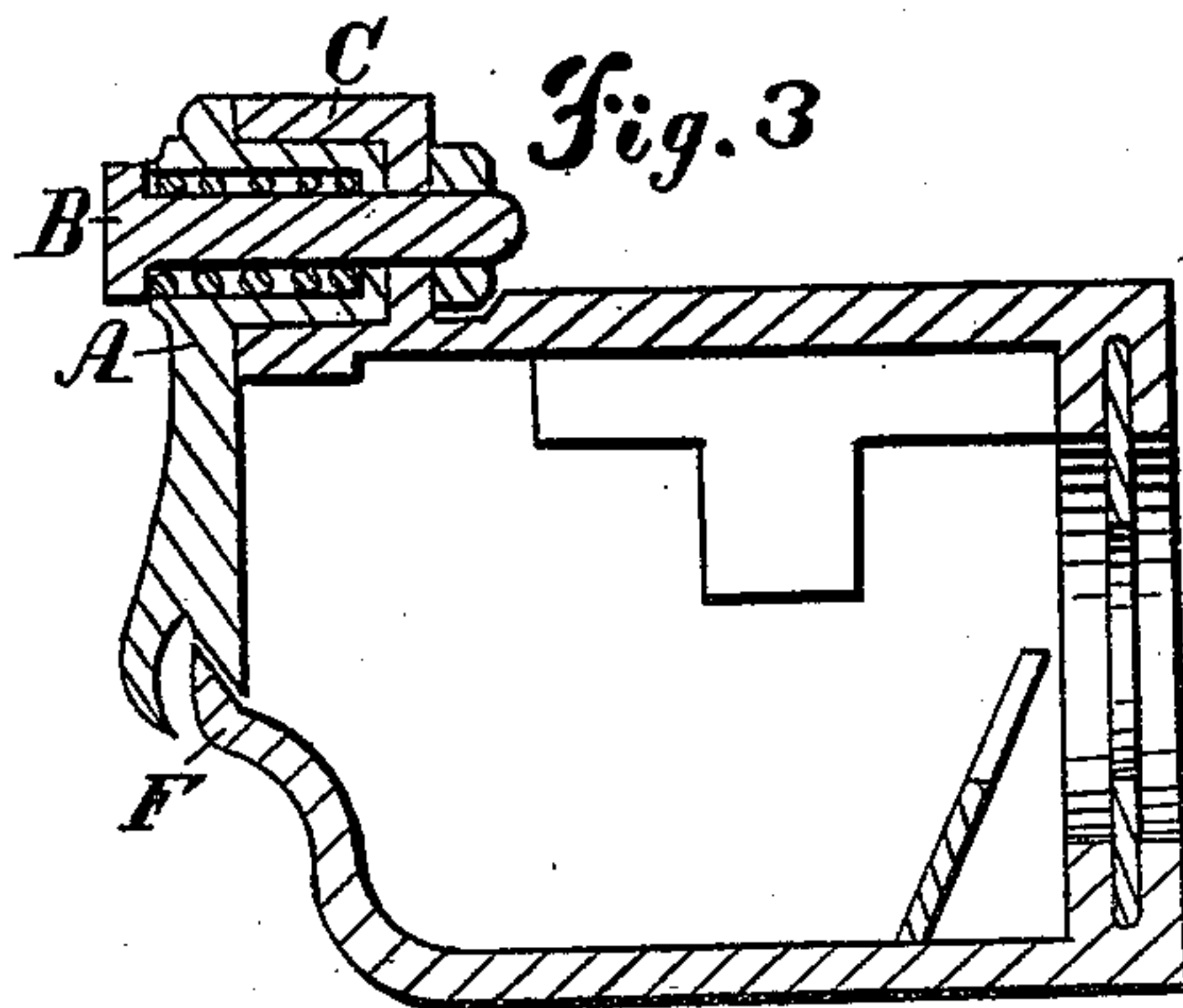


Fig. 3



Witnesses.

Horace Bunker —  
Marcus S. Frothingham

Inventor.  
William Campbell  
by his attorney in fact  
Ernest D. Otter

# United States Patent Office.

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WILLIAM CAMPBELL, OF CLINTON, IOWA.

*Letters Patent No. 93,858, dated August 17, 1869.*

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## IMPROVED RAILWAY-CAR-AXLE BOX.

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The Schedule referred to in these Letters Patent and making part of the same.

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*To all whom it may concern:*

Be it known that I, WILLIAM CAMPBELL, of Clinton, in the county of Clinton, and State of Iowa, have invented a new and improved Mode of Attaching the Cover to a Car Oil-Box; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

To enable others to make and use my invention, I will describe its construction and operation.

The cover is cast with a teat or projection near the top, as shown, at letter A, in Figure 2, in the accompanying drawing, which revolves in a recess in the box to which it is permanently fastened with a single bolt, B, passing through the teat, and a lug, C, cast in the top of the box, into a nut, E, thus enabling the cover to revolve and open or close the box, as shown on Figures 3 and 4, without changing or removing any bolt or other fastening.

There is also a circular projection on the face of the box, at the bottom of the opening, forming a slot or dovetail with the bottom of the cover, thereby making a close-fitting joint, as shown at F.

This cover can also be used with a spiral spring placed in a recess in the cover, under the head of the bolt, which enables the cover to form a close-fitting joint with the box, and is fastened in the same manner as shown in cross-section, Figure 5.

What I claim as my invention, and desire to secure by Letters Patent, is—

The cover, having the teat cast on it, in combination with the lug cast on the box, when all these parts are constructed, arranged, and operate as shown and described.

WILLIAM CAMPBELL.

Witnesses:

J. B. HOWE,  
C. C. ELLIOTT.