

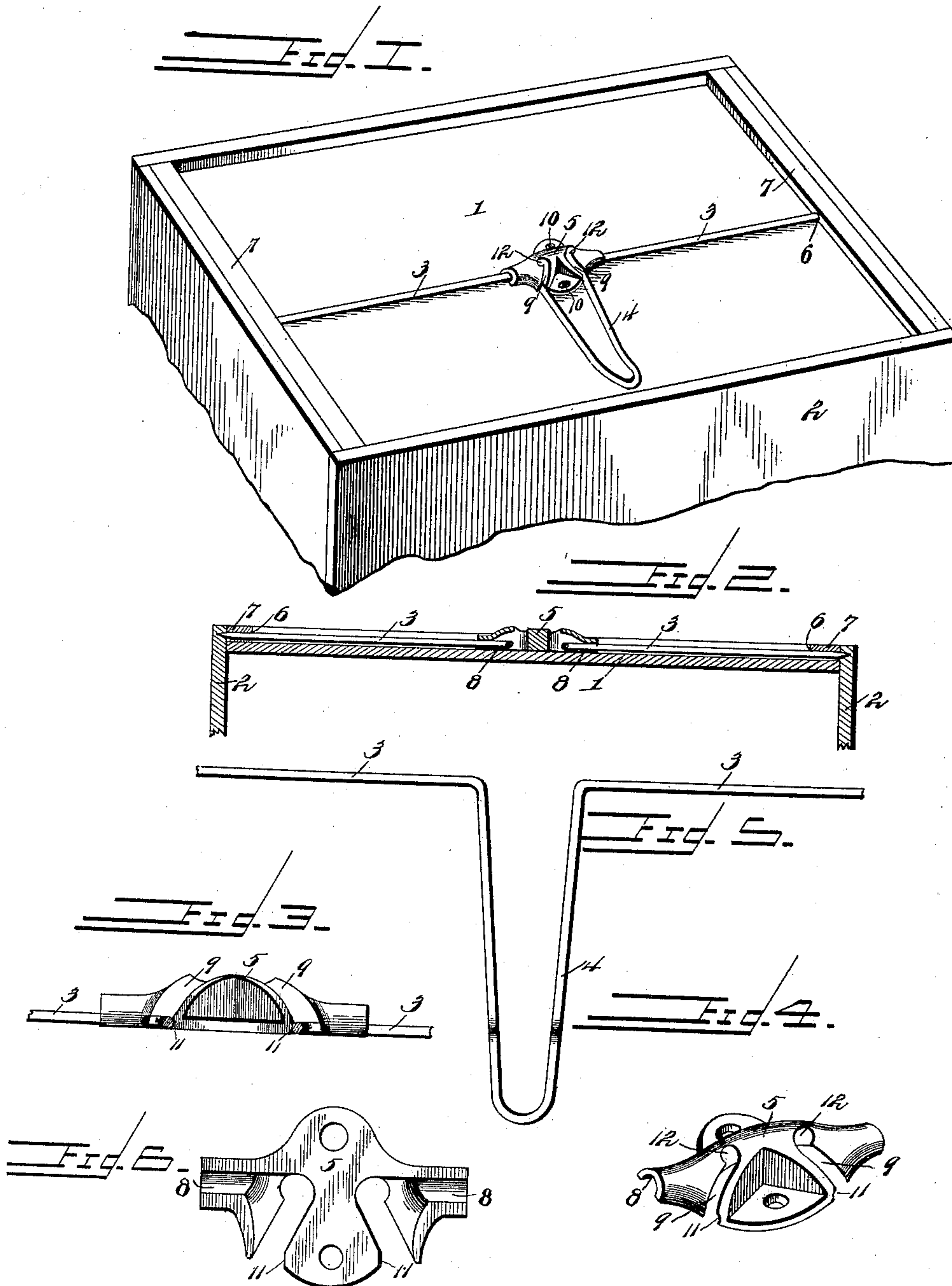
No. 609,913.

Patented Aug. 30, 1898.

W. B. SHEER.  
BOX FASTENER.

(Application filed Mar. 9, 1898.)

(No Model.)



Witnesses

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# UNITED STATES PATENT OFFICE.

WALTER B. SHEER, OF QUINCY, ILLINOIS, ASSIGNOR TO HENRY B. DINES  
AND JOHN C. DUSSAIR, OF SAME PLACE.

## BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 609,913, dated August 30, 1898.

Application filed March 9, 1898. Serial No. 673,209. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER B. SHEER, a citizen of the United States, residing at Quincy, in the county of Adams and State of Illinois, have  
5 invented a new and useful Box-Fastener, of which the following is a specification.

The invention relates to improvements in box-fasteners.

The object of the present invention is to  
10 improve the construction of box-fasteners and to provide a simple, inexpensive, and efficient device adapted to secure the cover of a box to the body thereof and capable of engaging the walls of the body portion of the box and  
15 of holding the lid or cover at any desired vertical adjustment within the box.

A further object of the invention is to provide a locking device in which the parts will be securely retained against accidental movement when they are in engagement with the  
20 body of a box and also when withdrawn from such engagement.

The invention consists in the construction and novel combination and arrangement of  
25 parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a locking device constructed in accordance with this invention and shown applied to a box. Fig. 2 is a vertical sectional view taken longitudinally of the locking-arms and showing the same in engagement with the walls of the body of the box. Fig. 3 is a  
35 detail sectional view showing the loop or handle in engagement with the lower recesses of the plate or casting. Fig. 4 is an enlarged detail perspective view of the plate or casting. Fig. 5 is a detail view of the central  
40 portion of the wire of which the locking-arms and the loop or handle are constructed. Fig. 6 is a reverse plan view of the attachment-plate.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a lid or cover fitting within the body 2 of a box and adapted to be secured to the same at the top thereof, or at any desired  
50 point between the top and bottom, by a pair

of reciprocating locking-arms 3, constructed of a single piece of stout wire or other suitable material and connected by a central resilient loop or handle 4 and secured to the lid or cover at the upper or outer face thereof by  
55 a plate or fastening 5. The outer ends of the locking-arms are pointed in order to enable them to readily embed themselves in the walls of a box, and they are guided in perforations 6 of cleats 7, secured to the upper  
60 face of the lid or cover, as shown. The plate or casting 5, which is constructed of any suitable material, is provided at its inner face with longitudinal grooves 8 to receive the inner terminals of the locking-arms, and it has  
65 a pair of outwardly-diverging slots 9 extending from the inner ends of the grooves and receiving the sides of the resilient loop or handle, whereby when the latter is oscillated and swung from a vertical position to a horizontal position, or vice versa, the horizontal  
70 arms will be reciprocated and forced outward or drawn inward, according to the direction in which the handle or loop is moved. When the handle or loop is swung downward against  
75 the lid or cover, its sides are separated by the inner walls of the diverging slots 9 and the locking rods or arms are forced outward. The handle when moved in the opposite direction withdraws the locking-arms from en-  
80 gagement with the body of the box and frees the lid or cover.

The central portion of the plate or casting is enlarged and the enlargement tapers slightly at the ends, and the plate or casting is perforated at opposite sides of the central portion of the enlargement to receive screws 10 or other suitable fastening devices for securing the device to the lid or cover. The space between the inner walls of the slots 9 has one  
85 of the perforations, the said inner walls consisting, essentially, of outwardly-diverging flanges, as clearly shown in Fig. 4 of the accompanying drawings.

The resilient loop or handle is locked in its  
95 lower position to retain the locking-arms in engagement with the body of the box by means of notches or recesses 11, formed in the inner walls of the slots 9, at the outer edges thereof, adjacent to the lid or cover, and the  
100



resilient sides of the loop or handle engage such notches or recesses sufficiently firmly to prevent the handle from accidentally slipping from them. The plate or casting is provided at the inner ends of the slots 9 with notches 12, which form seats for the sides of the loop or handle when the latter is in a vertical position, whereby the locking-arms are held retracted.

- 10 The invention has the following advantages: The box-fastener, which is exceedingly simple and inexpensive in construction, is capable of locking the cover or lid of a box or analogous receptacle at the top of the box or  
15 at any desired adjustment between the top and bottom. The plate or casting which causes a reciprocation of the locking-arms serves to secure the same to the lid or cover, and it is provided with means for retaining  
20 the locking-arms in engagement with the body of the box and for holding them out of such engagement.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What I claim is—

1. A device of the class described comprising a pair of reciprocating locking-arms designed to be mounted on a lid or cover, a resilient handle of substantially U-shaped form having its sides connected with the locking-arms, and a plate provided with grooves to receive the arms and adapted to secure the same to a lid or cover and having diverging slots located at the inner ends of the grooves and receiving the sides of the handle, said plate being provided, at the inner and outer ends

of the slots, with means for positively engaging the sides of the resilient handle, whereby it is detachably interlocked with the plate at each limit of its movement, substantially as described.

2. A device of the class described comprising a pair of locking-arms, a plate having grooves at its inner face to receive the arms and provided with diverging slots and having recesses arranged at the inner and outer ends of the slots and formed in the walls thereof, and a resilient handle connecting the locking-arms and having sides operating in the slots and adapted to engage the recesses, whereby the handle is locked against accidental movement, substantially as described.

3. In a device of the class described, the combination of a cover or lid provided at opposite ends with cleats having perforations, locking-arms arranged in the perforations and adapted to project outward therefrom, a resilient handle composed of two sides connecting the locking-arms, and a plate centrally secured to the lid or cover and retaining the locking-arms and the handle thereon, said plate being provided at its inner face with grooves to receive the arms and having slots to receive the sides of the handle, the latter being detachably interlocked with the walls of the slots to hold it against accidental movement, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WALTER B. SHEER.

Witnesses:

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J. L. SHEER.