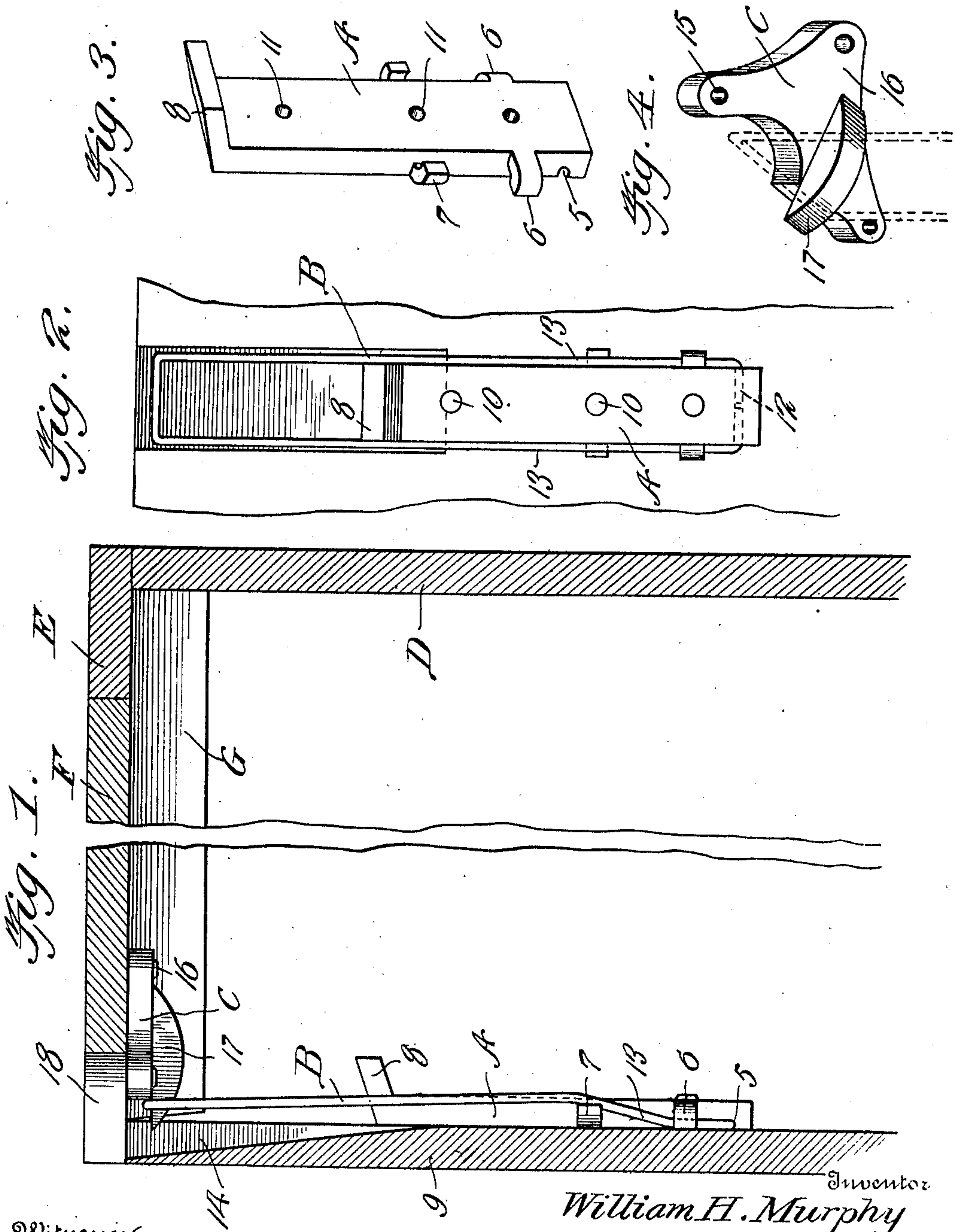


W. H. MURPHY.
BOX FASTENER.

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WILLIAM H. MURPHY, OF ALBERT LEA, MINNESOTA.

BOX-FASTENER.

970,639.

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To all whom it may concern:

Be it known that I, WILLIAM H. MURPHY, a citizen of the United States of America, residing at Albert Lea, in the county of Freeborn and State of Minnesota, have invented new and useful Improvements in Box-Fasteners, of which the following is a specification.

This invention relates to box fasteners, and it has for its object to provide a simple and efficient device of this kind, whereby the lid of a box may be securely held in closed position in such a manner as to enable the same to be readily opened and detached.

A further object of the invention is to provide a simple and efficient device for holding in position a spring member constituting a part of the fastening device.

Further objects of the invention are to simplify and improve the general construction and operation of a device of the character described.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawing has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawing, Figure 1 is a vertical sectional view of a box equipped with the improved fastening device. Fig. 2 is a view in elevation of the inner face of one of the box sides or walls, showing parts of the fastening device connected therewith. Fig. 3 is a perspective view of the spring holding member of the fastening device. Fig. 4 is a perspective view of the catch member of the device.

Corresponding parts in the several figures are denoted by like characters of reference.

The improved fastening device includes a spring holder A, a spring B and a catch member C.

The box D to which the invention is applied is preferably provided with a top slat E and with a detachable cover F provided on its underside with cleats, one of which is

shown at G, said cleats being adapted to project beneath the top slat E, as clearly seen in Fig. 1.

The spring holding member A consists of a plate of elongated rectangular shape provided on its rear face adjacent to its lower edge with a transverse groove 5, said plate being also provided adjacent to its side edges with pairs of hook-shaped projections 6—6, 7—7, the former of which being relatively the lowermost are faced in a rearward direction with reference to the plate A, while the uppermost hook-shaped projections 7—7 are faced in a forward direction, as will be clearly seen by reference to Fig. 3. The plate is also provided adjacent to its upper edge with a forwardly extending lug 8. The member A is secured upon the inner face of what may be regarded as the front wall 9 of the box D by means of fastening members 10 driven through apertures 11 in the plate A; said member A serving to secure in position the spring yoke B, the limbs of which are provided adjacent to their lower ends with inturned projections 12 for the accommodation of which the groove 5 is provided in the plate 8; the limbs 13 of said yoke being accommodated in the hook-shaped projections 6 and 7 which latter serve to place the limbs under tension with the result of projecting the arched upper end of the yoke B in an inward direction with reference to the box, the limbs of the yoke being guided by the lug 8 to prevent lateral displacement. The box wall 9 has been shown as provided with an inclined notch 14 adjacent to its upper edge for the accommodation of the yoke B when the latter is sprung in an outward or forward direction.

The catch member C, which is secured upon the underside of the box lid F consists of a plate having apertures 15 for the passage of fastening members 16, said plate being also formed with a beveled hook-shaped projection 17 adapted to be engaged by the arched upper end of the spring yoke B. To render the latter accessible for the purpose of opening the box, the lid F is provided with a finger opening 18.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. To apply the cover, the projecting ends of the cleats G are inserted beneath the top slat E,

and the free end of the cover is then depressed until the beveled hook-shaped projection 17 engages the spring yoke B, as clearly seen in Fig. 1, thus holding the cover securely in position. A seal may be pasted over the finger opening 18 to indicate if the fastening device has been tampered with. To remove the lid it is only necessary to press the arched end of the spring yoke in a forward direction until disengaged from the projection 17, when the lid may be readily lifted and detached.

Having thus described the invention, what is claimed as new, is:—

1. In a device of the character described, a spring yoke, a spring holder consisting of a plate having laterally extending hook-shaped projections faced in opposite directions and a spring guiding lug, and a spring-engaging catch.

2. In a device of the character described, a spring yoke, the limbs of which are provided with terminal inturned projections, a

spring holder consisting of a plate having a groove to receive said projections, laterally extending hook-shaped projections to engage the limbs of the yoke and to place the latter under tension and a spring guiding lug, and a spring-engaging catch.

3. A device of the character described including a spring yoke, the limbs of which are provided with terminal inturned ends, a fastening member including oppositely faced hook-shaped projections to engage the limbs of the yoke and to place the latter under tension and having a groove to accommodate the inturned ends of the limbs of the yoke, and a spring-engaging catch having a beveled hook-shaped projection.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. MURPHY.

Witnesses:

MARTIN LUBBY,
JOHN P. SWERTSON.