No. 868,334. PATENTED OCT. 15, 1907.

J. W. EVANS.

BOX LID FASTENING.

APPLICATION FILED JAN. 29, 1907.

Fig. 1.

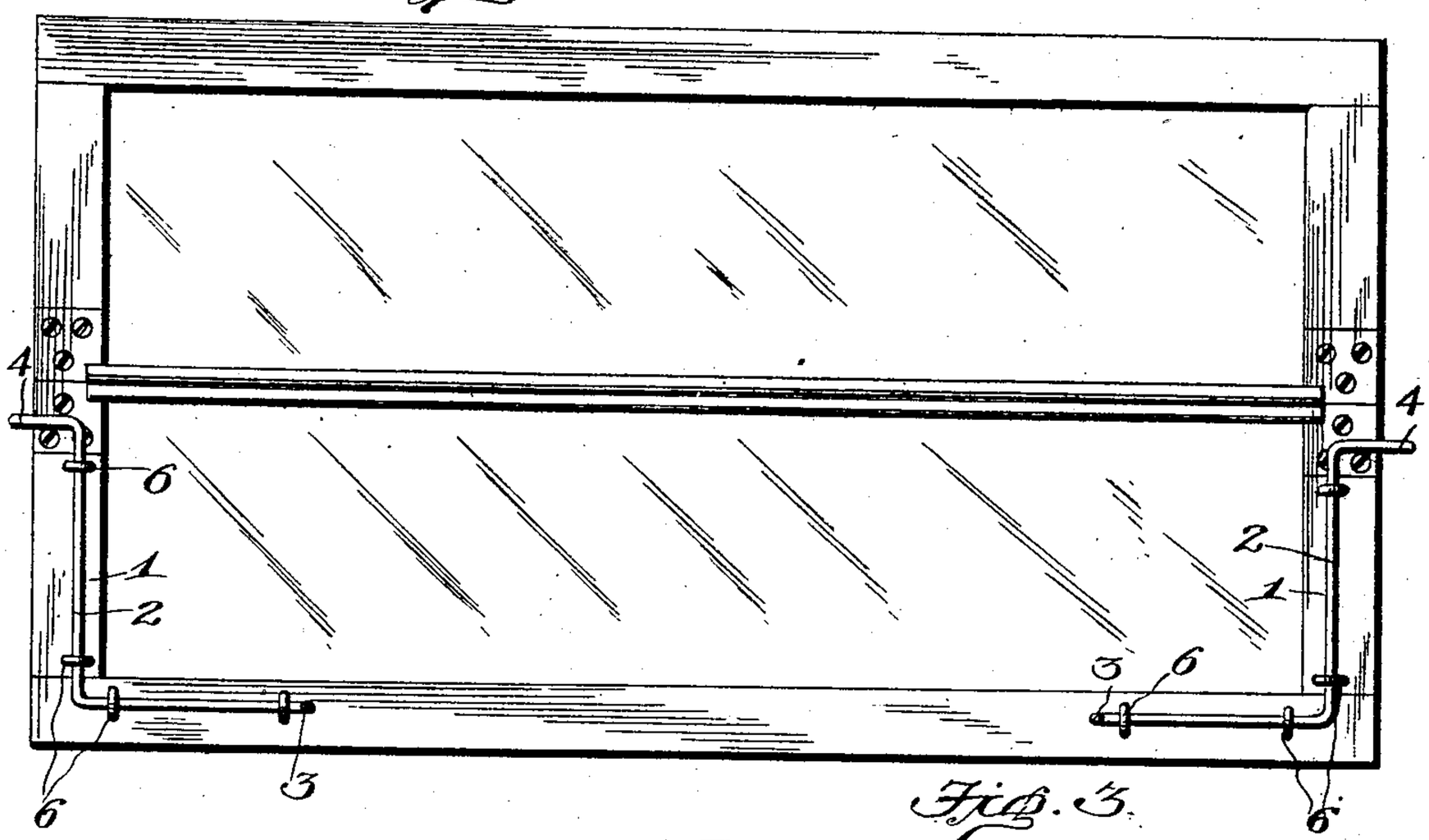


Fig. 2.

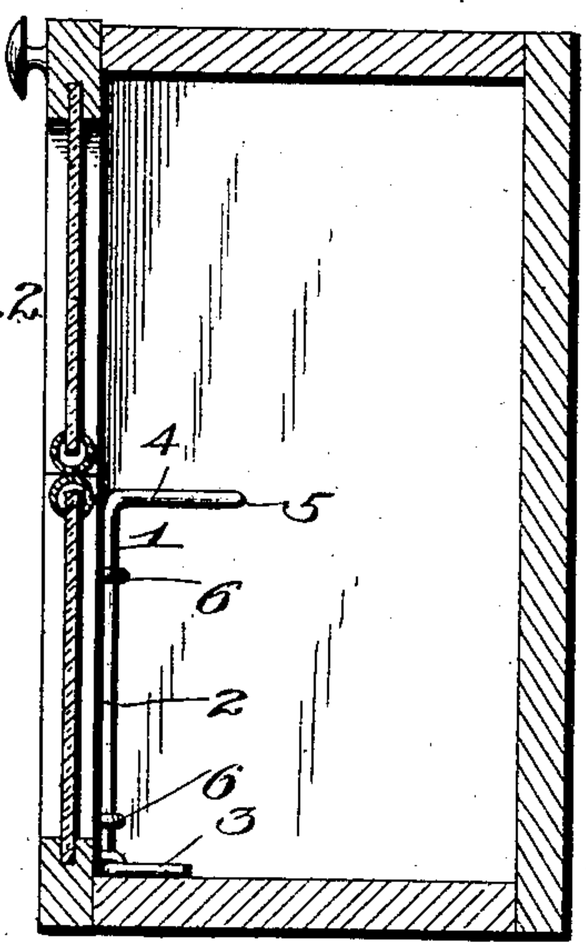


Fig. 3.

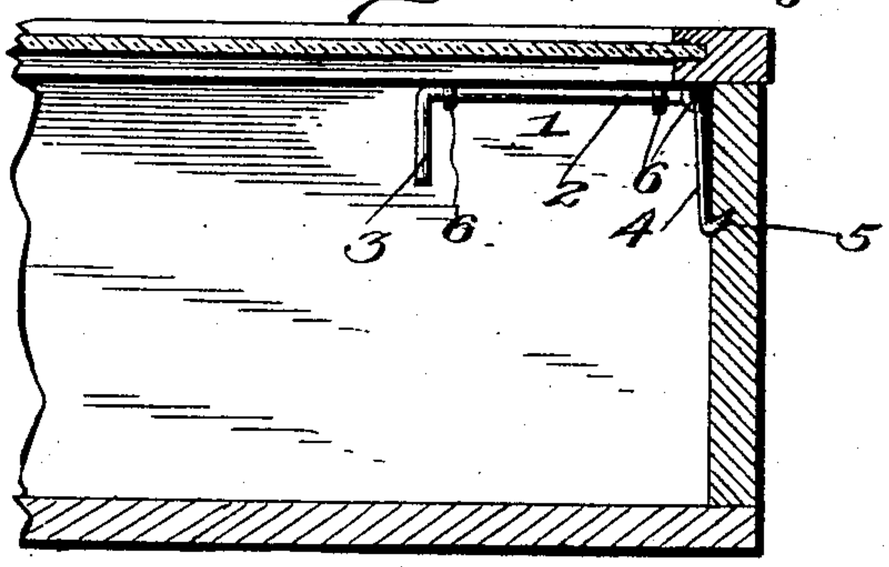
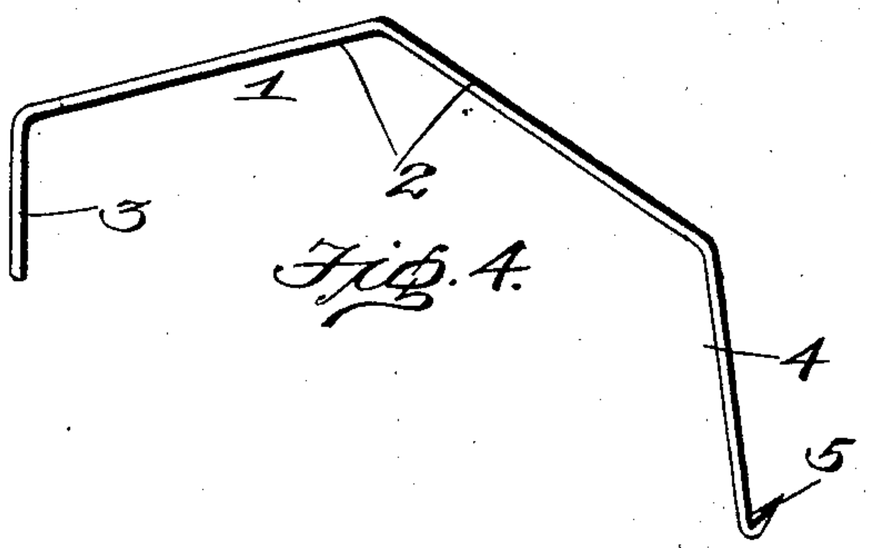


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

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BOX-LID FASTENING.

No. 868,334. Specification of Letters Patent. Patented Oct. 15, 1907.

Application filed January 29, 1907. Serial No. 354,739.

To all whom it may concern:

Be it known that I, JOHN W. EVANS, a citizen of the United States, residing at Bernie, in the county of Stoddard and State of Missouri, have invented certain new and useful Improvements in Box-Lid Fastenings; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in box lid fasteners.

The object of the invention is to provide a temporary fastening device for the lids of boxes, barrels, crates and the like by means of which the lid may be quickly and easily secured to and removed from a box or other receptacle without the use of screws or nails.

A further object is to provide a fastening device of this character which will be simple, strong, durable and inexpensive in construction, efficient and reliable in operation and well adapted to the purpose for which it is designed.

With the above and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a bottom view of a display lid for boxes, showing the application of the invention thereto; Fig. 2 is a vertical sectional view of a box and lid, showing the manner of engaging the fastening hooks with the box; Fig. 3 is a sectional view through one end of the box and a portion of the cover taken at right angles to Fig. 2; and Fig. 4 is a detail, perspective view of one of the fastening devices removed from the lid.

Referring more particularly to the drawings, 1 denotes the fastening device, which is formed of a single piece of spring wire bent laterally at one end to form a right angular-shaped fastening arm 2, the lower end of which is bent inwardly to form a guide pin 3. The opposite end of the wire is bent inwardly in a plane substantially at right angles to the plane of the fastening arm 2, said inwardly-bent portion forming a spring box engaging arm 4. On the lower end of the arm 4 is formed an oblique outwardly-projecting barb or prong 5, which when the fastening is in use is adapted to be engaged with the inner sides of the ends of the box, as clearly shown in Fig. 3 of the drawings.

In applying the fastening device to a lid two or more of the same are provided and are fastened or secured to the inner side of the lid adjacent to the outer edges thereof by staples 6 or other suitable securing devices. In the present instance, the fasteners are shown as being applied to the opposite ends of a display lid for boxes, said devices being secured to the opposite rear corners of the lid, so that the guide pins 3 will project inwardly in position to engage the inner wall of the lower side of the box, thus facilitating the quick application of the cover to the box and the adjustment of the same in the proper position thereon. When the lid has been thus adjusted upon the box, the spring arms 4 will forcibly engage or bear upon the inner walls of the opposite ends of the box and the barbs or prongs 5 on the inner ends of said arms will be forced into the wood forming the ends of the box, thus securely holding the lid in place. Any outward pull or attempt at the removal of the lid serves to more forcibly engage the prongs or barbs 5 with the box. When it is desired to remove the lid from the box the upper or hinged portion of the lid is opened and one of the spring arms is disengaged by hand from the end of the box, thus allowing said end of the lid to be moved outwardly, which will readily disengage the opposite arm 4 from the box and thus permit the removal of the lid. When the spring arms 4 are not engaged with the ends of the box they project at an angle of about twenty degrees beyond the ends of the lid, so that they will readily engage the ends of boxes which may vary slightly in length or size.

While the fastening devices are here shown as temporary fastenings for the display covers of a box, it is obvious that the same may be employed as a permanent fastening for any form of lids or covers.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined by the appended claims.

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

1. A box lid fastener comprising a wire bent to lie on the inner side of a lid near a corner thereof, and having one end bent to form a guide pin to bear against the inner face of one side of a box and the other end bent to form a spring arm to bear against the inner face of the contiguous side of the box and having a point to engage the same.

2. A fastening device of the character described constructed of a single wire rod bent at one end to form a right angularly-shaped fastening arm, an inwardly-projecting guide pin on one end of said fastening arm and an inwardly-projecting spring lid securing arm formed on the

opposite end of the wire to engage the inner wall of a box or receptacle to hold the lid thereon, substantially as described.

3. A fastening device for lids constructed of a single wire bent at one end to from a right angularly-shaped fastening arm, an inwardly-projecting guide pin on the lower end of said arm, an inwardly-projecting spring lid securing arm formed on the opposite ends of said rod, and an oblique outwardly-projecting barb or prong formed on the inner end of said spring arm to engage the inner wall of a receptacle, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN W. EVANS.

Witnesses:
T. W. LINDSAY,
J. M. GRAYSON.