

No. 764,722.

PATENTED JULY 12, 1904.

W. S. HEDDLES.
BOX FASTENER.

APPLICATION FILED MAR. 26, 1903.

NO MODEL.

Fig. 1.

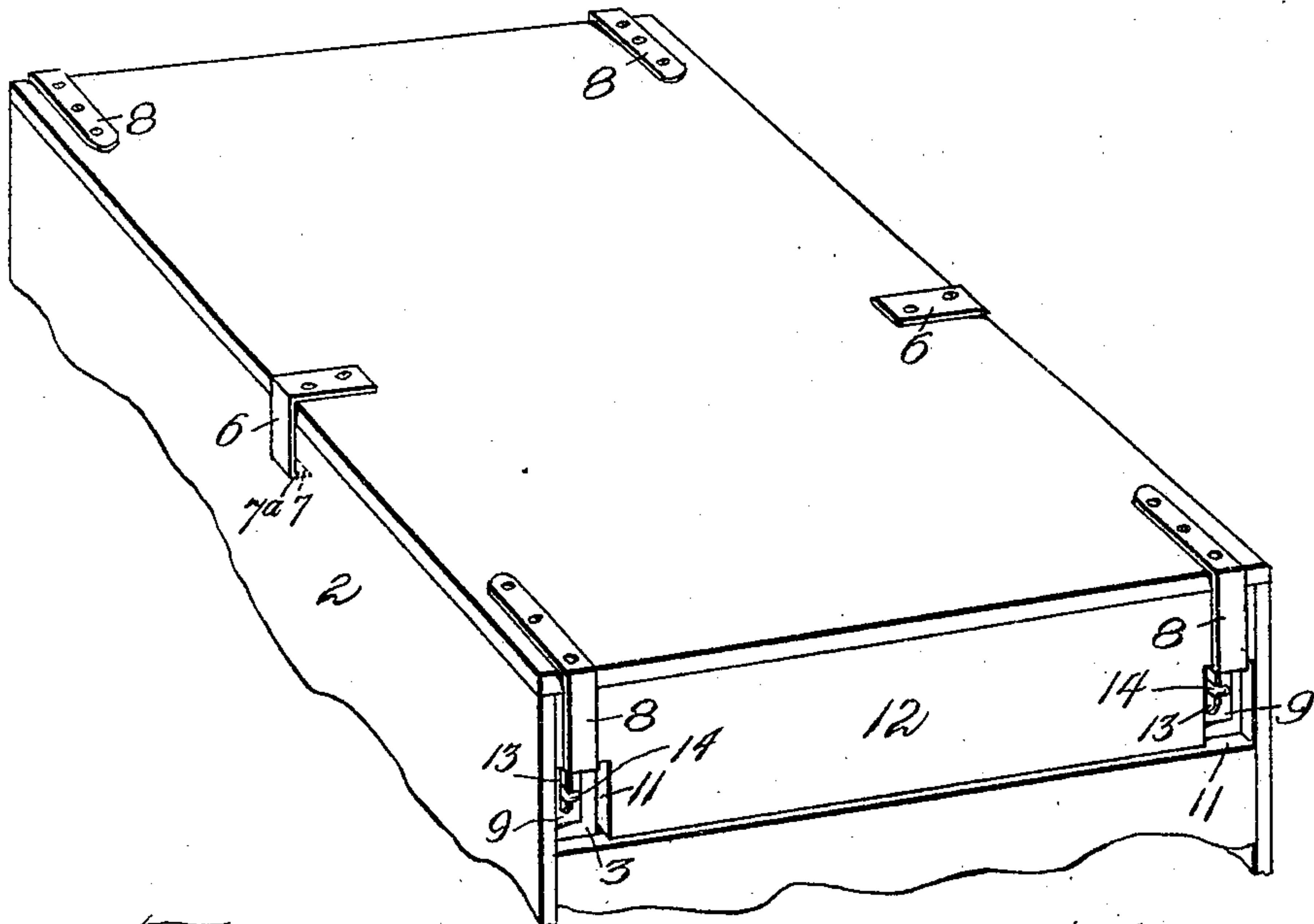


Fig. 2.

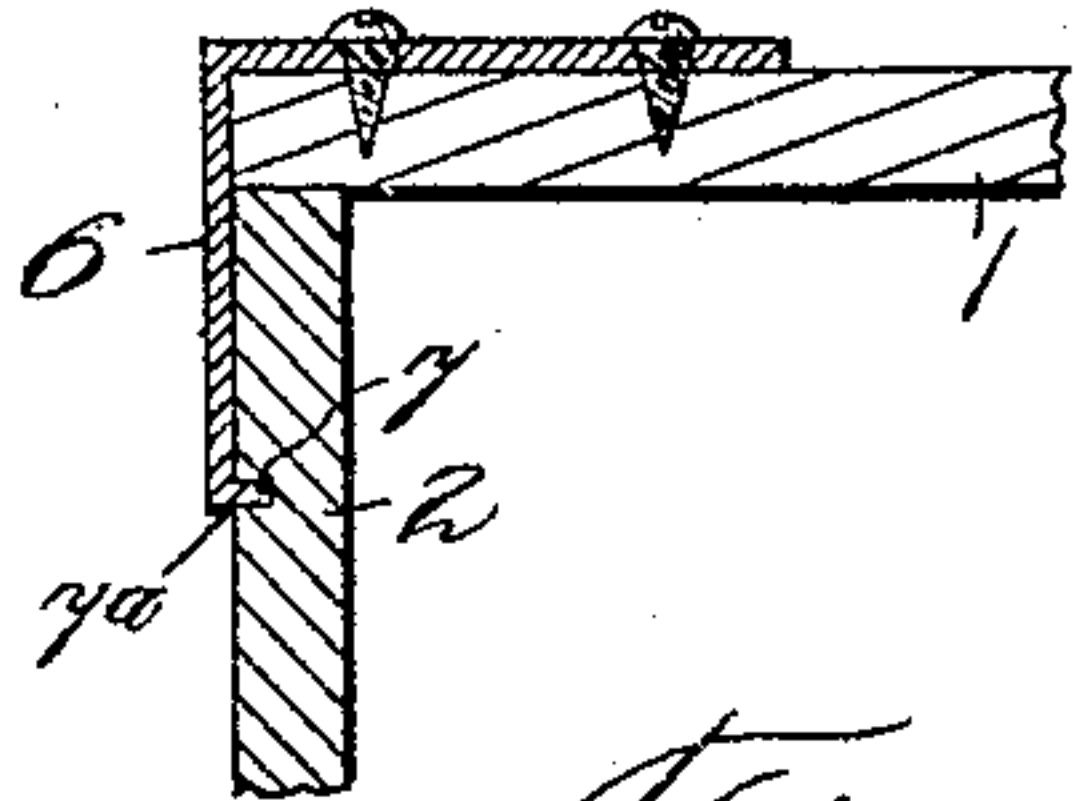


Fig. 3.

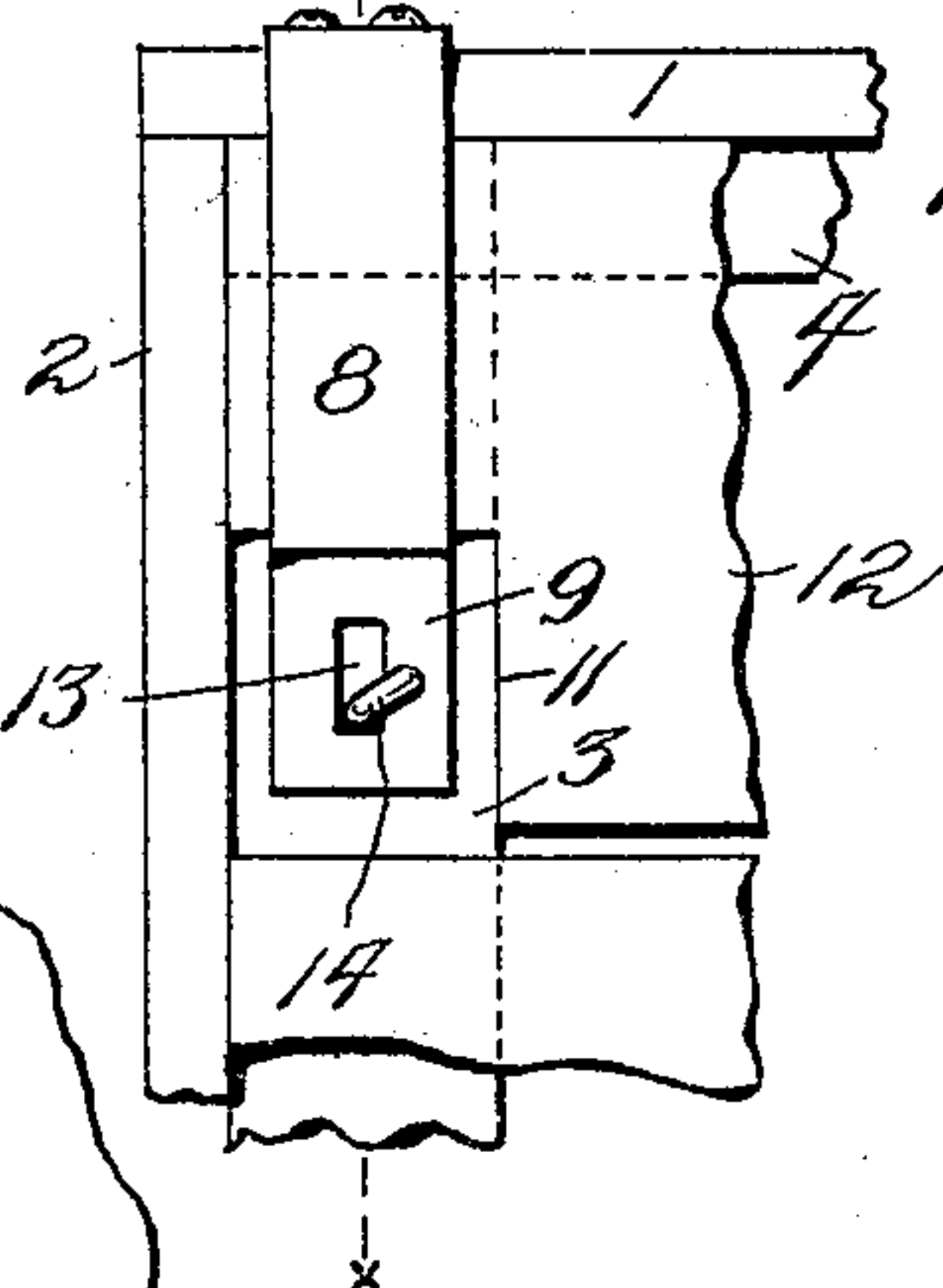


Fig. 4.

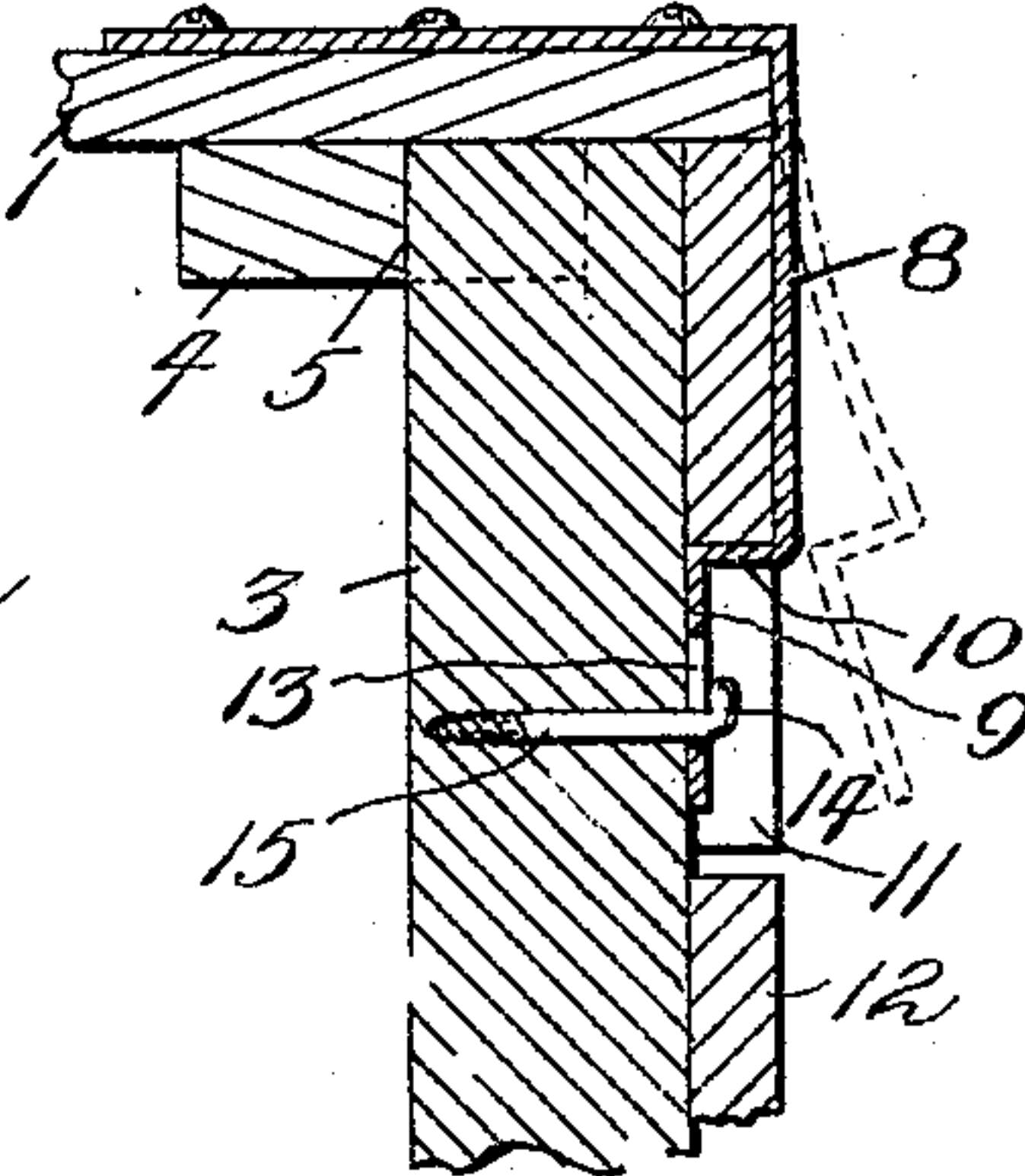
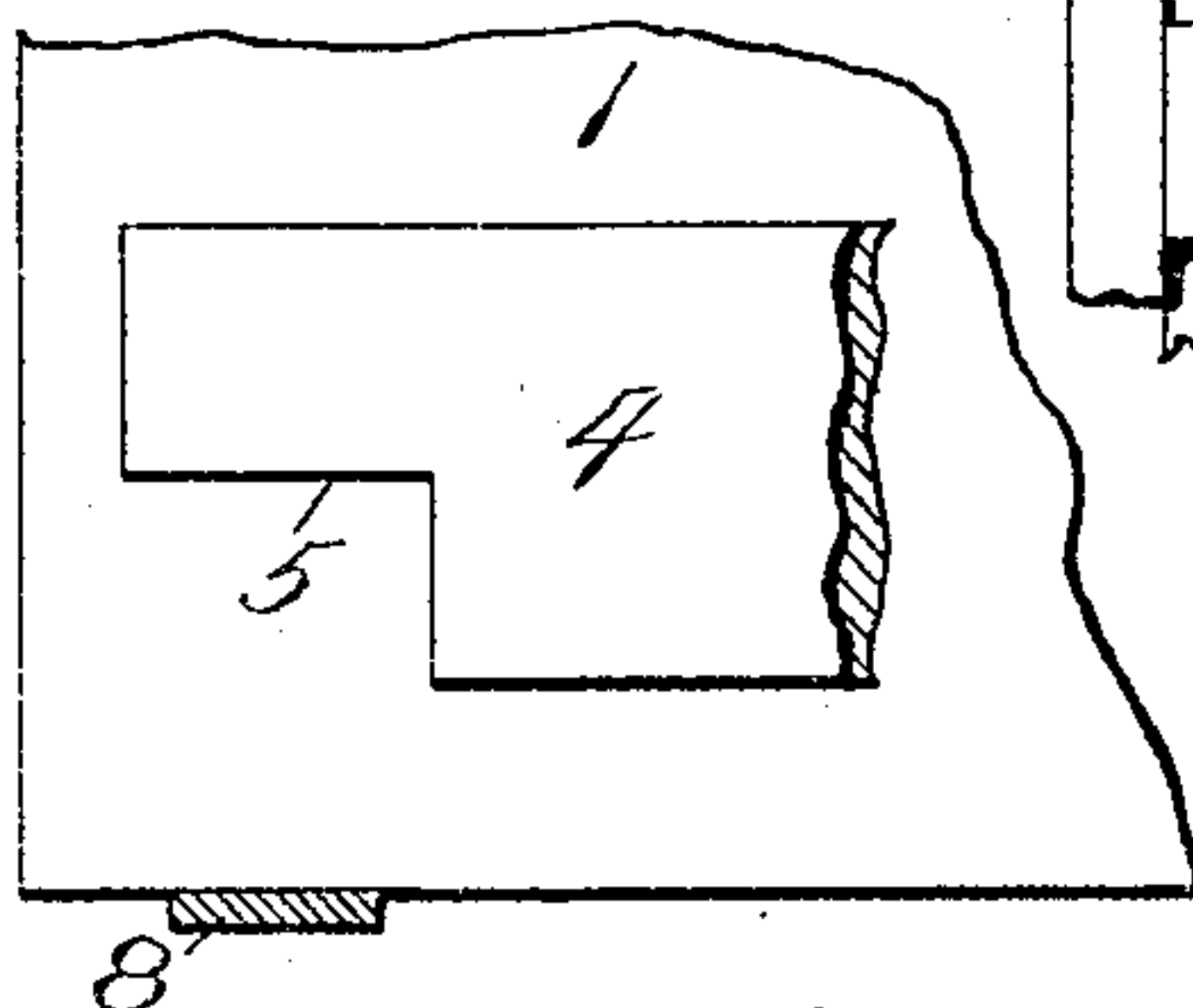


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLARD S. HEDDLES, OF EDGERTON, WISCONSIN.

BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 764,722, dated July 12, 1904.

Application filed March 26, 1903. Serial No. 149,738. (No model.)

To all whom it may concern:

Be it known that I, WILLARD S. HEDDLES, a citizen of the United States, residing at Edgerton, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Box-Fasteners, of which the following is a specification.

My invention relates to an improvement in box-fastenings.

The object of my invention is to provide a detachable fastening which may be used a number of times and, in fact, one that will last as long as the box.

Another feature lies in forming the fasteners of spring metal that they may be readily disengaged from the box.

Still another object resides in so bracing and fastening the lid that it will be held against displacement in any direction.

Finally, the invention consists in the novel details of construction and operation, a preferable embodiment of which is described in the specification and illustrated in the drawings, wherein—

Figure 1 is a perspective view of the upper portion of a box, showing my fastening applied. Fig. 2 is a transverse sectional view taken through one of the fasteners to the adjacent portions of the box. Fig. 3 is a detail view of a portion of one end of the box. Fig. 4 is a partial longitudinal sectional view taken on the line *x x* of Fig. 3, and Fig. 5 is a partial bottom plan view of the lid.

In the drawings the numeral 1 designates the lid of the box 2, which is provided with corner-posts 3. Strips 4 are provided on the under surface of the lid near its ends and formed with notches 5, adapted to engage with the corner-posts 3. These strips 4 act as guides to facilitate the ready placing of the lid on the box and constitute braces for holding the lid after it has been so placed.

To fasten the lid upon the box, I provide a plurality of metallic fasteners, preferably formed of spring-steel and secured to the lid in any suitable manner. I have shown for securing the sides of the lid fasteners 6, formed with tongues 7, which engage incisions or recesses 7^a in the walls of the box and hold the lid against lateral displacement.

The fasteners 8 for the ends of the box are of a slightly-modified form, although they embody the same generic construction employed in the side fasteners 6. Tongues 9 are formed on the fasteners 8 by bending the latter at right angles, as at 10, so that the tongues will lie approximately parallel to the fasteners in the recesses or incisions 11, made in the end walls 12 of the box. It will be observed that the fasteners 8 are held firmly down by the engagement of the angular portions 10 with the end wall 12. As an additional means for holding the tongues 9 in the recesses 11 they are provided with slots 13, which are adapted to have passed therethrough turn-buttons 14, screwed into the corner-posts 3. These turn-buttons 14 may be of any suitable style and are secured in the corner-posts preferably by screw-threaded shanks 15 and are adapted to be turned across the slots 13 to lock the tongues in the recesses.

From the foregoing it will be seen that the lid is fastened on both sides of the corner-posts 3, and by observing Fig. 4 it will be seen that one of the strips 4 on one side and one of the fasteners 8 on the other side are shown as embracing the corner-post 3.

Taking the box as shown in Fig. 1, where the lid is shown as fastened thereto, the operation of unfastening the same will be readily understood. The end fasteners 8 are first disengaged by turning the buttons 14 and causing them to register with the slots 13, when the fasteners, owing to their resilient nature, will spring out of the recesses 11, as indicated in Fig. 4. The side fasteners 6 are next disengaged from the incisions or recesses 7^a by pressing the side walls of the box inward or by prying the fasteners out of the recesses. The latter procedure will hardly ever be necessary, as the side walls of a box will almost always yield to pressure. After the end and side fastenings have been detached the lid may be lifted from the box.

It will be obvious that I have provided a simple, strong, and efficient fastening and one that will be comparatively inexpensive to manufacture and whose parts will not be liable to get out of working order; but I wish it understood that I do not limit myself to the ex-

act details of construction and operation herein set forth, as I may make various changes in the same without departing from the spirit of my invention.

5 Having fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

10 In combination with the box and the lid thereof, said box having its ends provided adjacent its opposite edges with recesses, fasteners formed of spring-steel secured to the lid and being bent downwardly to engage the box ends, the lower ends of said downwardly-bent portions being bent inwardly to engage

the upper walls of said recesses and then downwardly, said last-named downwardly-bent portion forming the terminals of the lower portions of said fasteners and being provided with slots, and buttons secured in said box ends and projecting through the slots of said fasteners, whereby the lower ends thereof are secured entirely within said recesses. 15 20

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

WILLARD S. HEDDLES.

Witnesses:

E. C. MASON,
SENA THORESON.