

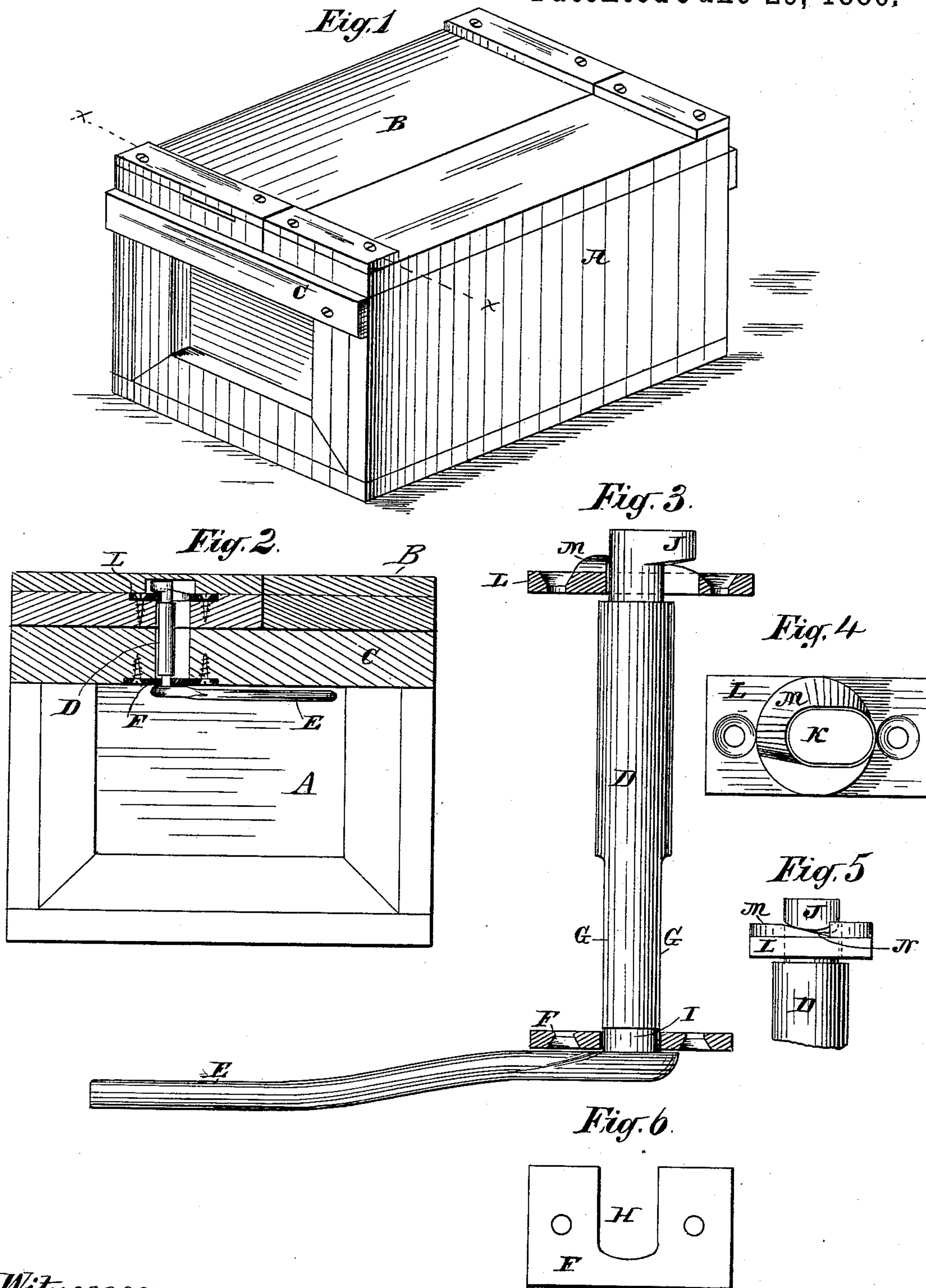
(No Model.)

W. G. BOND.

FASTENER FOR SHIPPING CASES.

No. 344,473.

Patented June 29, 1886.



Witnesses:

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UNITED STATES PATENT OFFICE.

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FASTENER FOR SHIPPING-CASES.

SPECIFICATION forming part of Letters Patent No. 344,473, dated June 29, 1886.

Application filed March 24, 1886. Serial No. 196,354. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GEORGE BOND, of Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Fasteners for Shipping-Cases, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention relates to shipping-cases—that is, to the boxes or cases used usually by wholesale and other dealers for shipping goods to retail-trade, these cases being specially constructed with reference to this use, and to being returned to the shipper and used again in the same way. These cases or boxes are made in a strong durable form, with hinged or otherwise readily-opened lids, and are provided with fastening devices for holding such lids closed. It is desirable that these fastenings shall be secure and strong, as well as certain and simple in their manner of operation, and it is particularly desirable that such fastenings shall not project from the surfaces of the cases, or be either arranged so that they will interfere with the handling of the cases or become broken or unlocked.

My invention therefore consists of a fastener for such cases, constructed and arranged to accomplish the objects explained, as will be fully set forth in the following description.

In the drawings, Figure 1 shows the general form of a packing-case such as the invention is applied to. Fig. 2 is an end view of the same, but with a portion thereof sectioned away on plane $x x$, to show the fastener in position. Fig. 3 is an elevation on an enlarged scale of the parts composing the fastener. Figs. 4 and 5 are respectively a plan and an edge view of the upper locking-plate, and Fig. 6 is a plan of the guide-plate.

In these views, A represents the packing-case. B is the lid of the same, which in the present instance is of a form that is pivoted at one end to the body of the box, so that the lid swings off edgewise; but folding hinges or any other suitable means may be employed for securing this end or one side of the lid to the box.

In the cross-piece C, forming a part of the other end of the case, is located the fastener for fastening the lid when it is in the closed

position. This fastener consists of the bolt D, which is provided with a handle, E, and is moved up and down thereby in the guide-plate F, the bolt being cut away, as seen at G, to permit it to have a short vertical movement through the correspondingly-shaped hole H, of such plate when in the unlocking position of Fig. 3, and being provided with the circular bearing I, adapting the bolt to engage with the guide-plate when it is pushed up and turned to the locking position of Fig. 2. This bolt also has at its upper end a laterally-projecting locking-lug, J, which passes through the hole K of the locking-plate L, which is secured to the lid of the case and arranged below the outer surface thereof, so that when the bolt is in the locking position the top thereof will not project beyond such outer surface. The hole K of the locking-plate is of the same shape as the lug J, and it is provided with a rising and falling or cam surface, M, over which the lug passes when the bolt is turned to the locking position, the purpose of this cam being to cause the lid to be tightly drawn down into place, and, together with the natural spring of the parts, to hold the bolt in its locked position after the lug J has passed over this cam-surface and into the notch N, formed thereby, as seen in Fig. 5.

To unlock the case, the handle of the bolt is swung out and turned half-way round, thus bringing the locking-lug to correspond with the hole in the locking-plate, as also the flat sides of the bolt to correspond with the hole in the guide-plate, Fig. 3. The bolt can now be dropped and release the lid, so that it can be swung off, and so that it will not project above the surface of the case and interfere with removing the contents thereof or in handling the case.

To lock the lid, the bolt will be first pushed up and then turned half-way round, Fig. 2.

It will be noticed that the fastener is located in a cross-piece of one end of the box, and this is the preferred manner of so placing the fastener, as thereby its handle is beneath the outermost surface of the end of the case, and so is not liable to be moved out by the ordinary handling that such cases undergo. Furthermore, being thus located where the cases are grasped, (these end pieces serving as han-

dles,) if accidentally displaced this will be discovered and the handles pushed back by the very act of handling the cases; and when it is desired to open the case the means for so doing are in the grasp of the handler of the cases. This fastener, however, is equally serviceable, whether attached to the case by means of such cross-pieces or in any of the various other possible ways; but this is a preferred way, and it serves to fully illustrate the purpose of the invention. So, too, the form of the locking-bolt shown is that which is considered the most desirable; but it may be otherwise constructed to serve the use here explained for it.

What is claimed as new is—

1. In combination, the bolt D, shaped as shown at G, and provided with the handle E and lug J, the guide-plate F, having hole H,

corresponding to the shape of the bolt at G, and the locking-plate L, provided with the hole K, corresponding in shape to the lug J, substantially as and for the purpose set forth.

2. In combination, the bolt D, provided with the handle E and lug J, and the plate L, having hole K, corresponding to the lug J, and also provided with the cam-surface M, substantially as and for the purpose set forth.

3. In combination, the lid B, provided with plate L, the cross-piece C, arranged as described, to serve as a handle to the case, and provided with the plate F, and the bolt D, having handle E, substantially as herein set forth.

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