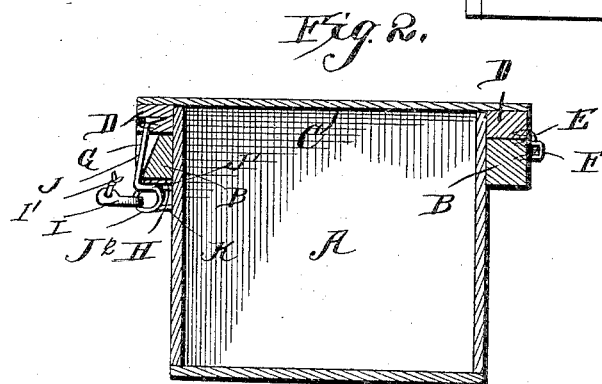
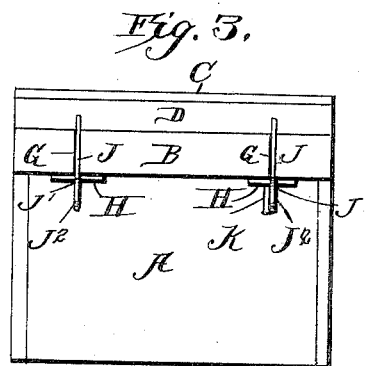
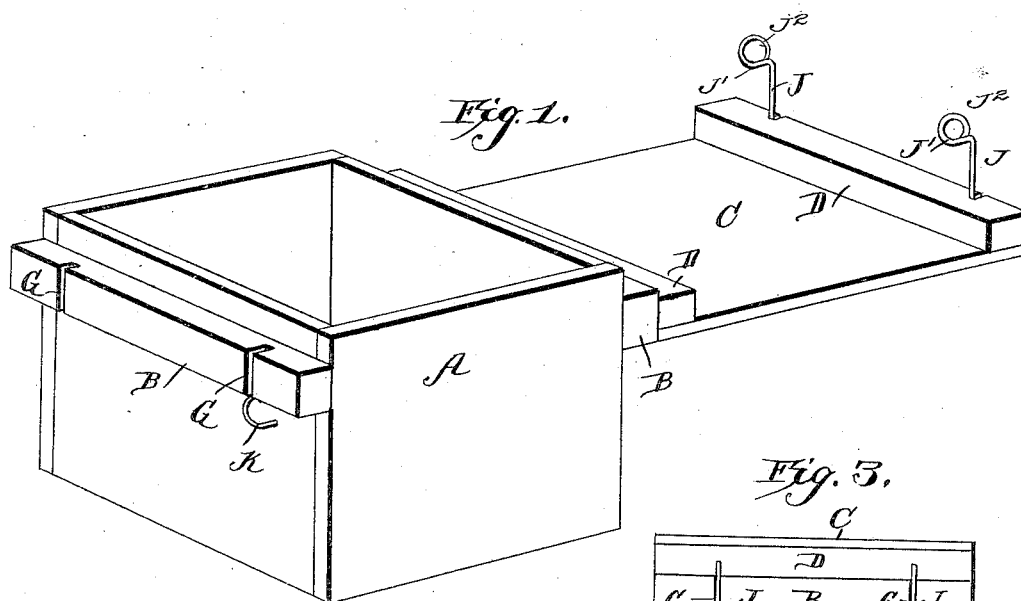


(No Model.)

J. B. HOAGLAND.  
BOX FASTENER.

No. 423,155.

Patented Mar. 11, 1890.



Witnesses  
*Henry J. Dietrich*  
*E. J. Syggs*

Inventor  
*John B. Hoagland*

By *h. s.* Attorneys  
*C. A. Snowdon*

# UNITED STATES PATENT OFFICE.

JOHN B. HOAGLAND, OF NASHVILLE, TENNESSEE, ASSIGNOR OF ONE-HALF  
TO WILLIAM M. CASSETTY, OF SAME PLACE.

## BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 423,155, dated March 11, 1890.

Application filed April 4, 1889. Serial No. 305,926. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN B. HOAGLAND, a citizen of the United States, residing at Nashville, in the county of Davidson and State of Tennessee, have invented a new and useful Box-Fastener, of which the following is a specification.

My invention relates to improvements in a fastener for egg or packing cases, the object being the production of a durable and inexpensive fastener for a case.

To attain the desired objects, the invention consists of a case having cleats at each end, a lid having cleats, and preferably loop or staple hinges for hinging the cleats of the case and lid at one end, and spring-catches having eyes carried by the cleat at the other end of the lid, adapted to enter grooves in the cleat of the case and have the loops thereof engage plates on the under side of said cleat and form a lock therewith; further, in a case having an improved novel catch and a staple for attaching the seal.

In the drawings, Figure 1 is a perspective view of the case with the lid open. Fig. 2 is a transverse sectional view of one end of the case, partly broken away to illustrate the details of construction of the lock. Fig. 3 is a perspective view of the opposite end of the case to illustrate the preferred form of construction of the hinge.

Referring to the drawings, in which similar letters of reference denote corresponding parts in said figures, A designates the case, which is of rectangular shape, and has secured to each end a cleat or strip B, and C designates the lid having cleats D on the under side at each end, which, when the lid is down, rest on the cleats of the case. In one of the cleats of the case are staples or loops E, and in one of the cleats of the lid are staples or loops F, which pass through the loops E of the case and provide a hinge.

Other forms of hinges may be substituted for the one shown; but I prefer to employ the one described on account of its extreme simplicity, cheapness, &c.

From this construction it will be seen that the lid is hinged to the box by a loop-hinge, and that the lid may be thrown back without risk of it being lost or misplaced. In the

cleat at the opposite end of the case are provided grooves G, the bottom walls of which are inclined, and to the under side of the cleats at the base of the grooves are secured plates H. Attached to the cleat of the lid are spring-catches J, adapted to enter the grooves G, and having loops J<sup>2</sup>, bent to form shoulders or latches J', which ride on the inclined wall of the grooves and engage the plates H, and thus form a latch for the lid.

K designates an eye or staple secured to the case for attaching a tag, and the loops J<sup>2</sup> when the lid is closed align with one of the staples K, and through the said eyes may be passed the sheet-metal locking-link I of the tag, thus serving to fasten the catch and eye together and form a lock for the lid. I prefer to employ the U-shaped sheet-metal locking-link I shown, the ends of which are perforated and connected by a tie-wire I', carrying a tag, or it may be a seal; or, if desired, I may omit the link I and connect the aligning eyes and loops J<sup>2</sup> by means of a seal-wire.

From the foregoing it will be seen that I provide a case or box in which the cover is hinged to the case in such a manner that it cannot be misplaced or lost. The spring-catches when the lid is closed are embedded in the grooves of the cleat, so as to be protected, and the loops engage the plates, forming a perfect latch and one that cannot be knocked loose or come unfastened.

To open the case after the lock is disconnected, it is merely necessary to withdraw the eyes or loops of the catches from engagement with the plates and lift the lid. The cleats on the case form convenient hand-holds for carrying the case, and when the lid is closed one of the loops of the catches is in line with the staple of the case, and the cord of the tag passes through said loop and eye and forms an additional lock or seal for the case. It will also be noticed that the catches are automatic in locking, merely requiring the lid to be closed to effect the proper engagement of the catches.

If desired, I may dispense with the hinge for the lid and provide both ends thereof with the spring-catches described.

Having thus described my invention, I claim—

1. A shipping-case, the lid having cleats B at each end, provided with inclined grooves at the sides and plates H at the bottom, combined with the lid having cleats D at the ends  
5 to rest on the cleats B of the case when the lid is in position, and provided with spring-catches J, terminating in loops J<sup>2</sup>, bent to form shoulders J', said loops being disposed at a right angle to the wall of the case at  
10 which they are located and secured to the cleats of the lid, and are engaged and embedded within the grooves G of the cleats B, the shoulders of the catches engaging under the cleats B against the plates H, whereby  
15 the spring-catches are effectually protected from accidental disengagement, as set forth.

2. The case A, having near its upper edge at one side cleats, as B, transversely grooved, as at G, engaging plates secured across and

at the lower ends thereof, and staples, as K, 20 extending laterally from the case slightly at one side of the grooves, in combination with the lid C, having the end cleat D, provided with grooves registering with those in the cleat B, and spring-catches J, secured in the 25 grooves of the cleats D and projecting below the same, forming loops J<sup>2</sup> parallel with the staples K, and the locking-link I, inserted through the staple K and eye J<sup>2</sup>, substantially as specified. 30

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

JOHN B. HOAGLAND.

Witnesses:

D. W. QUARLES,  
T. J. DRUNINGTON.