

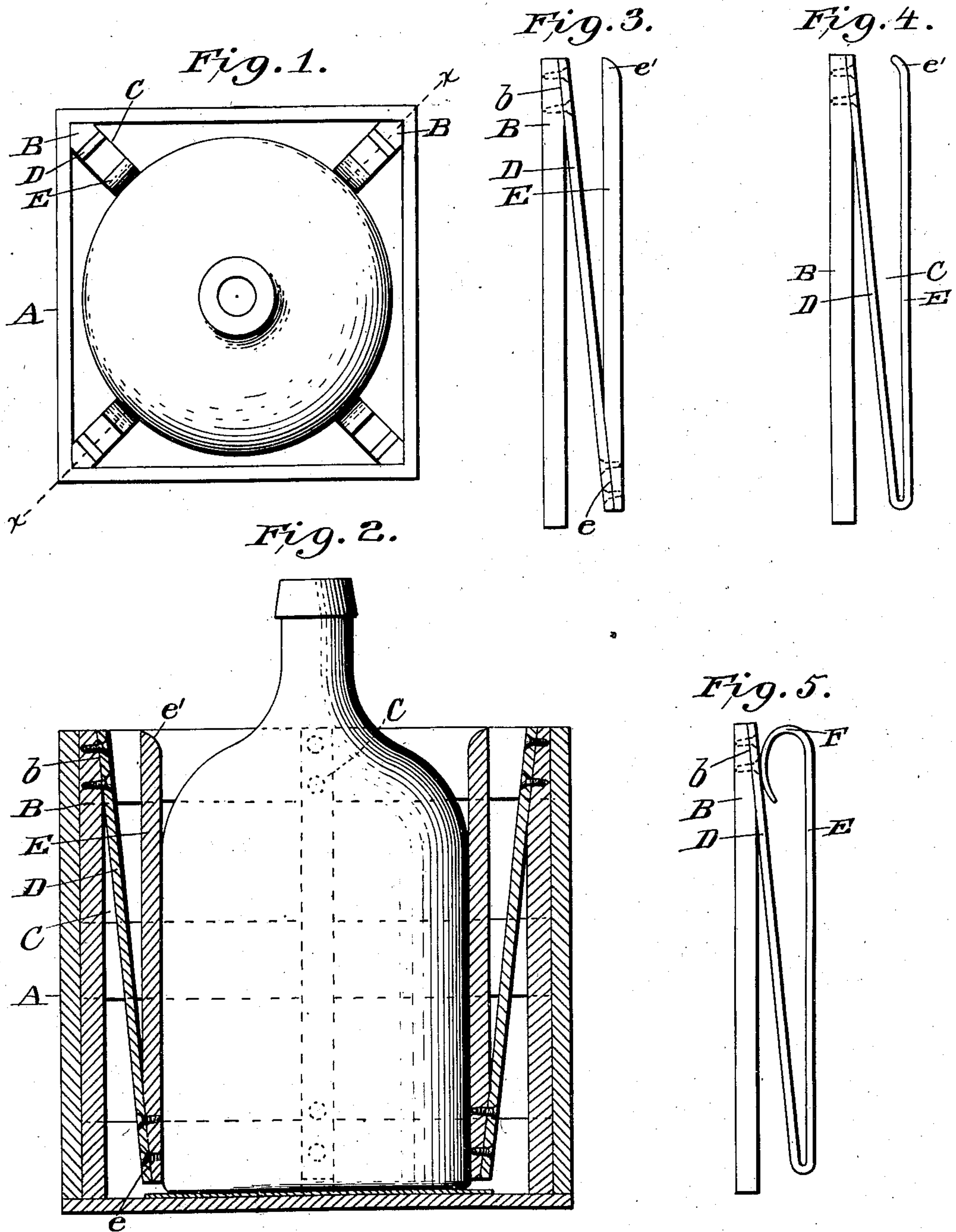
No. 611,059.

Patented Sept. 20, 1898.

T. J. CRAVEN.  
PACKING CASE.

(Application filed Mar. 16, 1898.)

(No Model.)



Witnesses

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# UNITED STATES PATENT OFFICE.

THOMAS J. CRAVEN, OF SALEM, NEW JERSEY.

## PACKING-CASE.

SPECIFICATION forming part of Letters Patent No. 611,059, dated September 20, 1898.

Application filed March 16, 1898. Serial No. 674,018. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS J. CRAVEN, a citizen of the United States, residing at Salem, in the county of Salem and State of New Jersey, have invented certain new and useful Improvements in Packing-Cases; 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.

My invention relates to an improvement in packing-cases more especially adapted for demijohns and like vessels.

It has for its object to provide simple and inexpensive means for effectively cushioning packing-cases for the purpose of preventing the inclosed demijohn or other vessel from being fractured or injured in handling or during transportation; and it consists of a number of spring-buffers or cushioning devices secured in the interior of the packing-case and in the construction, combination, and arrangement of the several parts, as more fully hereinafter described and claimed.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a top plan view; Fig. 2, a section on line  $x x$  of Fig. 1; Fig. 3, a detail of one of the spring buffers or cushions, and Figs. 4 and 5 details of modified forms of the same.

Referring to the accompanying drawings, in which like letters of reference denote like parts throughout the several views, A represents a packing-case, in this instance for the purpose of illustration being shown as of open design and provided with corner-posts B, having their upper ends beveled at  $b$ ; but said case may be of any other construction desired.

C represents my improved buffers or cushions, which consist of thin spring-strips of wood D, but may be of any other spring material, the upper ends of said spring-strips being secured to the beveled portions of the corner-posts by screws or other means, and guiding and clamping strips E, having their lower ends beveled at  $e$  and said beveled portions secured to the lower ends of the strips D in a similar manner to that employed for securing the strips D to the corner-posts, the upper ends of said strips E being beveled at  $e'$ .

The object of beveling the corner-posts B at their upper ends and attaching the upper ends of the spring-strips D to said beveled portions is to incline said strips at an angle to the corner-posts and thus give space for free play or movement of the strips D to and from the posts, and the object of beveling the lower ends of the guiding or clamping strips E is to arrange them substantially parallel to the corner-posts and also to give space for the free play or movement of the same to and from the spring-strips and the combined arrangement to give an even and uniform pressure to the guiding and clamping strips throughout their entire length.

In the modification shown in Fig. 4 of the drawings the spring-strips D and the guiding and clamping strips E are made in one piece, and in the modification shown in Fig. 5 the spring-strip and guiding or clamping strips are also made in one piece, and the guiding and clamping strip is bent over at F to give additional strength at that point to the spring action of the same.

The operation is as follows: The several parts of the packing-case being constructed and arranged as above described, to insert a demijohn the bottom of the same is placed against the upper beveled ends  $e'$  of the guiding and clamping strips and the demijohn then forced downward between said strips to the bottom of the packing-case, thus compressing the strips and clamping the demijohn securely between the same.

Although I have shown the posts and guiding and clamping strips as secured by beveled connections, yet it comes within the spirit of my invention to bevel the spring-strips at their opposite ends instead, as the same result is attained.

Having thus described my invention, what I claim is—

1. A buffer or cushion for a rectangular packing-case, comprising a supporting-strip in each corner thereof, spring-strips attached to said supporting-strips and inclined at an angle thereto, and guiding and clamping strips extending from the free ends of the spring-strips, substantially parallel to the sides of the packing-case, and having their upper ends free, substantially as described.

2. A buffer or cushion for a rectangular packing-case, comprising a post in each corner thereof, a spring-strip attached to each of said posts and inclined at an angle thereto, 5 and guiding and clamping strips at their lower ends secured to the lower ends of said spring-strips, and having their upper ends free, substantially as described.

3. A buffer or cushion for a packing-case, 10 comprising a spring-strip attached to said case by a beveled connection and inclined at an angle thereto, and a guiding and clamping strip substantially parallel to the sides of the packing-case, attached to the free end of

the spring-strip by a beveled connection, substantially as described. 15

4. A packing-case, provided with posts beveled at their upper ends, and having inclined spring-strips secured to said ends, and guiding and clamping strips beveled at their lower 20 ends and secured to the lower ends of said spring-strips, substantially as described.

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

THOS. J. CRAVEN

Witnesses:

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