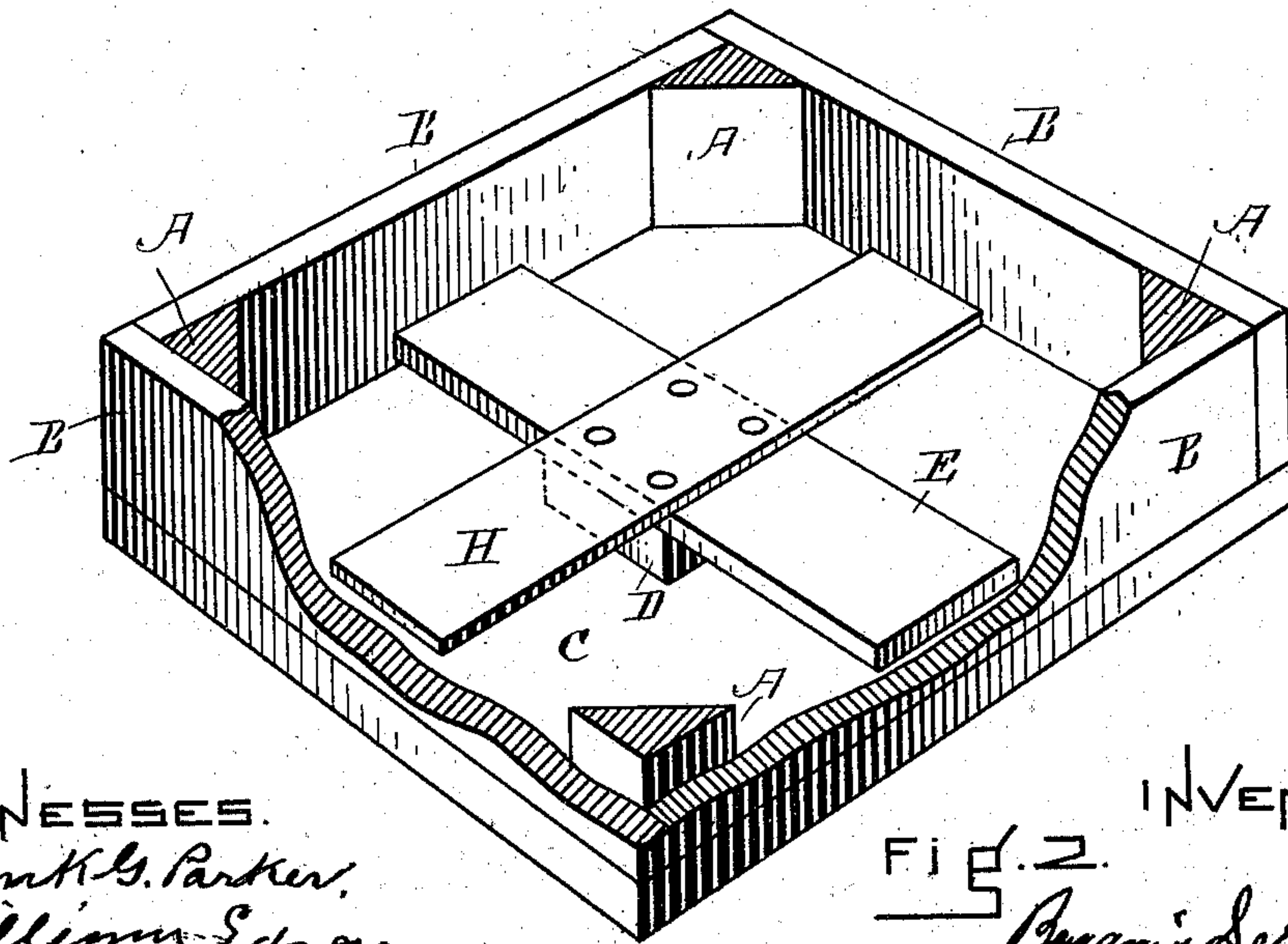
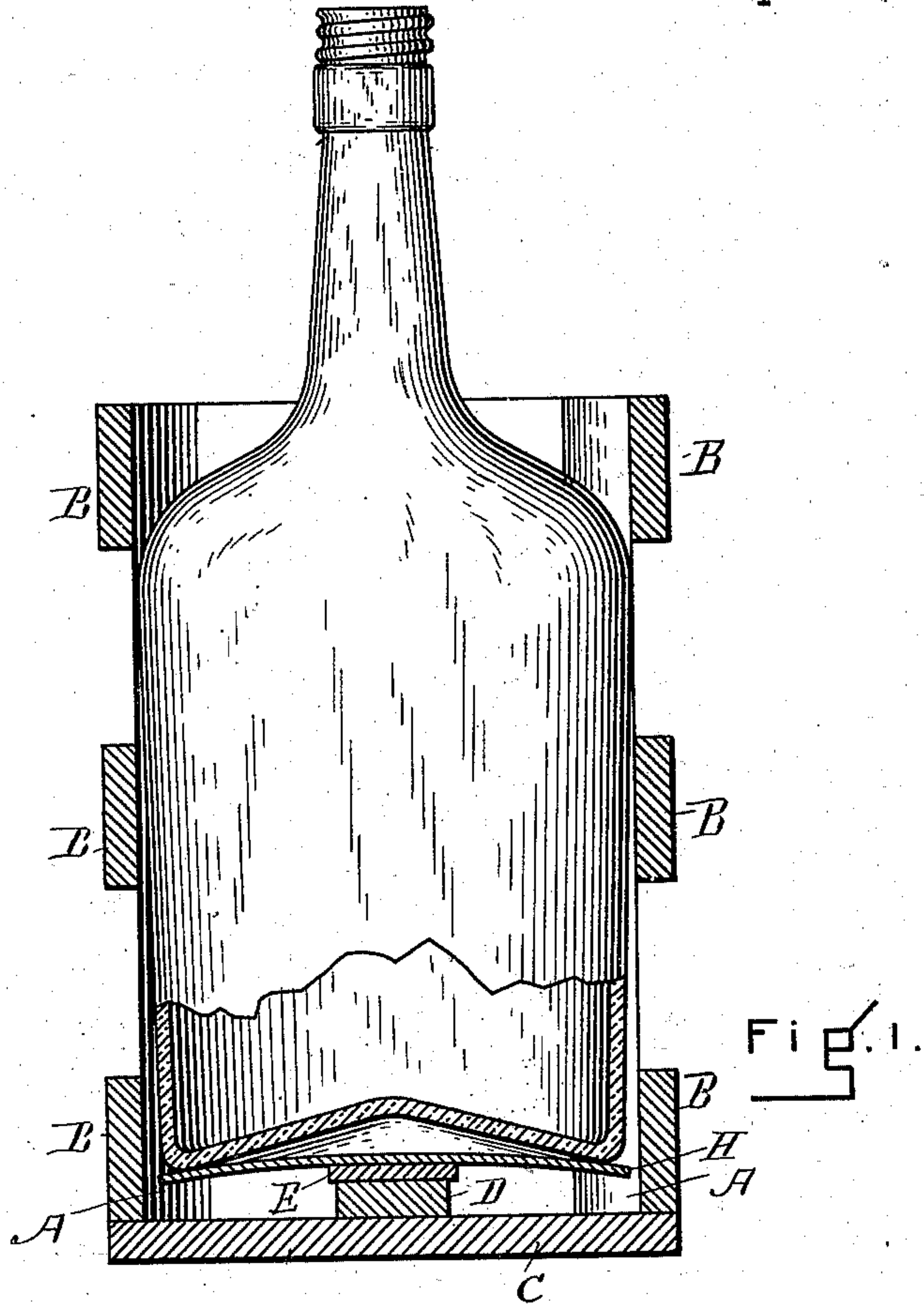


(No Model.)

B. S. ATWOOD.  
PACKING CASE FOR BOTTLES.

No. 558,923.

Patented Apr. 28, 1896.



WITNESSES.  
*Frank G. Parker,*  
*William Edson*

INVENTOR  
*B. S. Atwood*

# UNITED STATES PATENT OFFICE.

BENJAMIN S. ATWOOD, OF WHITMAN, MASSACHUSETTS.

## PACKING-CASE FOR BOTTLES.

SPECIFICATION forming part of Letters Patent No. 558,923, dated April 28, 1896.

Application filed August 6, 1895. Serial No. 558,380. (No model.)

*To all whom it may concern:*

Be it known that I, BENJAMIN S. ATWOOD, of Whitman, in the county of Plymouth and State of Massachusetts, have invented a new and useful Improvement in Packing-Cases for Bottles, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to that class of packing-cases that are provided with yielding lining, so that there is but little danger of breaking the bottle in handling or in transportation; and it consists in placing on the bottom of the packing-case a spring device upon which the bottom of the bottle rests, the object being to make a simple and cheap device that can be applied to a packing-case and that will prevent the breaking of the bottle at the bottom in handling or transportation. This object I attain by the mechanism shown in the accompanying drawings, in which—

Figure 1 is a vertical section of a packing-case, showing a bottle in position. Fig. 2 is a view in perspective showing the lower part of a packing-case having one of my spring devices attached.

In the drawings, A A represent the four corner-posts to which the side slats B B are attached.

The construction of the outer parts of the packing-case may be varied at will, as my invention will apply to a great variety of bottle-packing cases.

To the bottom C of the packing-case I attach a block D. This block D should be com-

paratively small and located at the center of the bottom. Upon the block D, I attach the spring E, made and placed substantially as shown. Above the spring E and attached to it is the spring H, placed at right angles to the spring E, as shown. The upper spring H is made lighter than the lower one, and being placed above it receives the first impact of the bottle, and yielding prevents the bottle from striking the second and main supporting-spring E with dangerous force.

The second spring E is made strong enough to give the filled bottle ample support, while the first or upper spring is light and yet sufficiently strong to prevent the bottle from striking too hard upon the supporting-spring to cause any injury.

I claim—

In a bottle-packing case horizontal flat springs crossing each other at the centers and centrally attached to the bottom of the case, the upper of said springs made lighter than the lower and adapted to receive the first impact of the bottle then yielding so as to allow the bottle to settle onto the lower spring upon which it permanently rests substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 31st day of July, A. D. 1895.

BENJAMIN S. ATWOOD.

Witnesses:

FRANK G. PARKER,  
WILLIAM EDSON.