(No Model.)

B. S. ATWOOD.

SAFETY CASE FOR BOTTLES.

No. 542,356. Patented July 9, 1895.

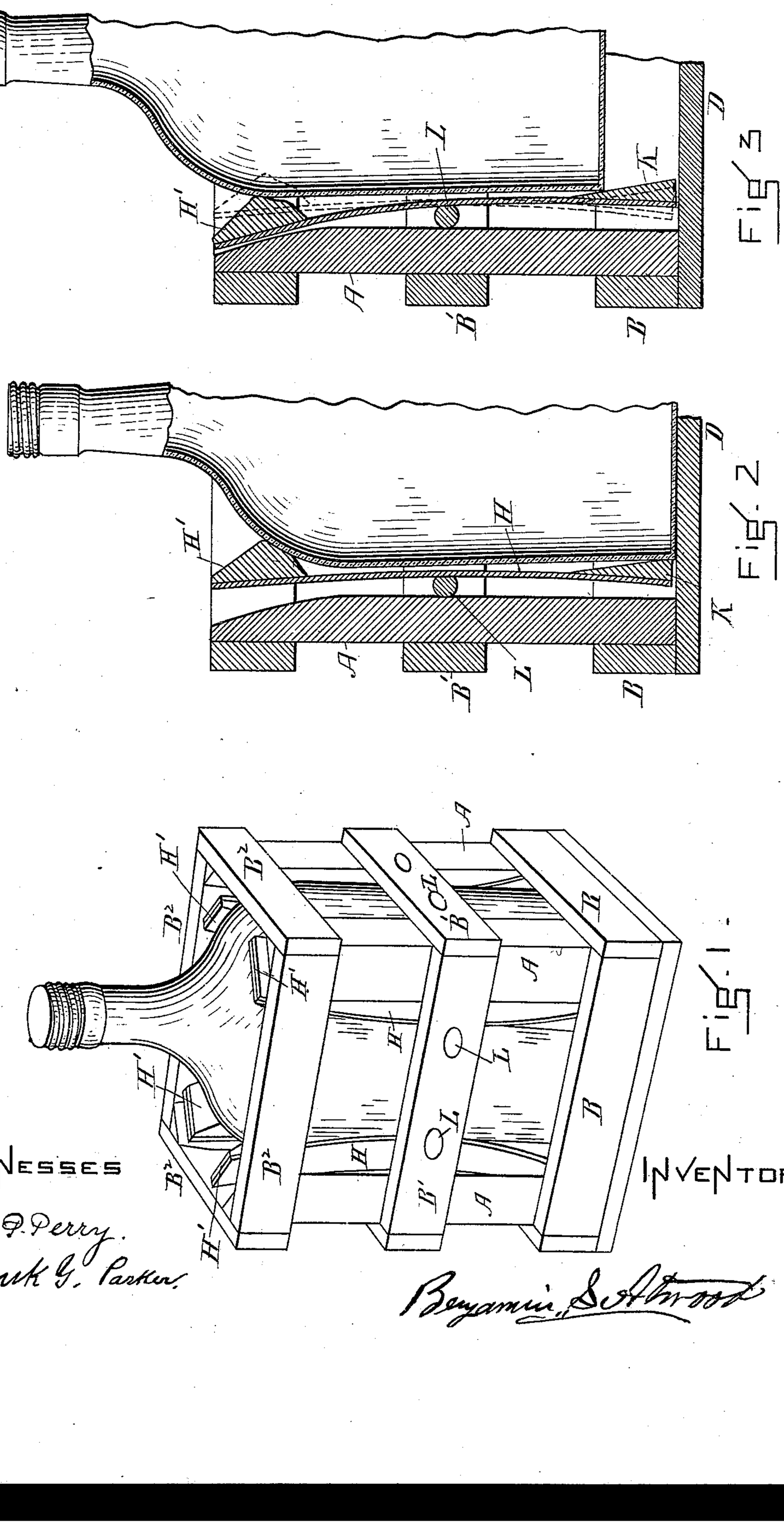

Fig. 3

Fig. 2

Fig. 1.

WITNESSES

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BENJAMIN S. ATWOOD, OF WHITMAN, ASSIGNOR OF ONE-HALF TO ALBERT G. SMALLEY, OF BOSTON, MASSACHUSETTS.

SAFETY-CASE FOR BOTTLES.

SPECIFICATION forming part of Letters Patent No. 542,356, dated July 9, 1895.

Application filed May 10, 1895. Serial No. 548,823. (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 Safety-Cases for Bottles, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to that class of casings which admit of readily removing and replacing the bottles; and it consists in combining with a suitable outside frame or box flexible holding-pieces centrally pivoted and provided with wedge-shaped pieces at the ends, the object being to provide a casing which will securely hold the bottle in place, admit of its easy removal, and having checks to prevent the bottles from being broken by violently striking the bottom of the case. These objects I attain by means of the mechanism shown in the accompanying drawings, in which—

Figure 1 is a perspective view showing one of my improved casings with a bottle. Fig. 2 is a vertical section showing the arrangement of the flexible holding-pieces. Fig. 3 is a vertical section intended to illustrate the action of the holding-pieces in preventing the bottle from being forced violently against the bottom of the case.

In the drawings, A A represent the four corner uprights of the case B B; B′ B′ B^2 B^2, horizontal slats nailed to the uprights, as shown, and D represents the bottom of the case. The above parts, constituting the case proper, may be made of any style and size and of any desirable material, or the case may be an ordinary box without a cover, made of suitable size and shape.

My invention lies wholly in the method of holding the bottle in place and in preventing it from being violently forced or dropped onto the bottom of the case.

At each corner of the case I place a holding-piece H. These pieces are flexible and elastic and are attached at or near their center to a pivotal part L. In the construction selected for illustration the pivotal part L is secured to the case by being inserted in holes made diagonally through the corners of the case, as shown in Fig. 1. (See L L.)

At the upper end of the flexible holding-pieces H, I attach a blook H′, which serves to press over the shoulder of the bottle, as shown in Fig. 2, and keep it in place. At the lower end of each flexible holding-piece H, I attach wedge-shaped pieces K, which have a double purpose—that is, they press firmly against the lower end of the bottle when it is in the case and hold it, as shown in Fig. 2. They also act as buffers, as shown in Fig. 3, so that when the bottle is put into the case and its lower end comes in contact with the buffers K it is checked in its motion and will slowly descend and strike the bottom gently. By this arrangement even dropping a full bottle into its case will not harm it.

I claim—

1. In a safety case for bottles, a set of flexible elastic holding strips pivotally connected at or near their centers to the casing proper, and having end wedge shaped pieces at one or both ends, substantially as, and for the purpose set forth.

2. In a safety case for bottles, a set of flexible elastic holding pieces, pivotally attached at or near the center to the casing proper, 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 7th day of May, A. D. 1895.

BENJAMIN S. ATWOOD.

Witnesses:
WM. P. PERRY,
WM. H. PARRY.