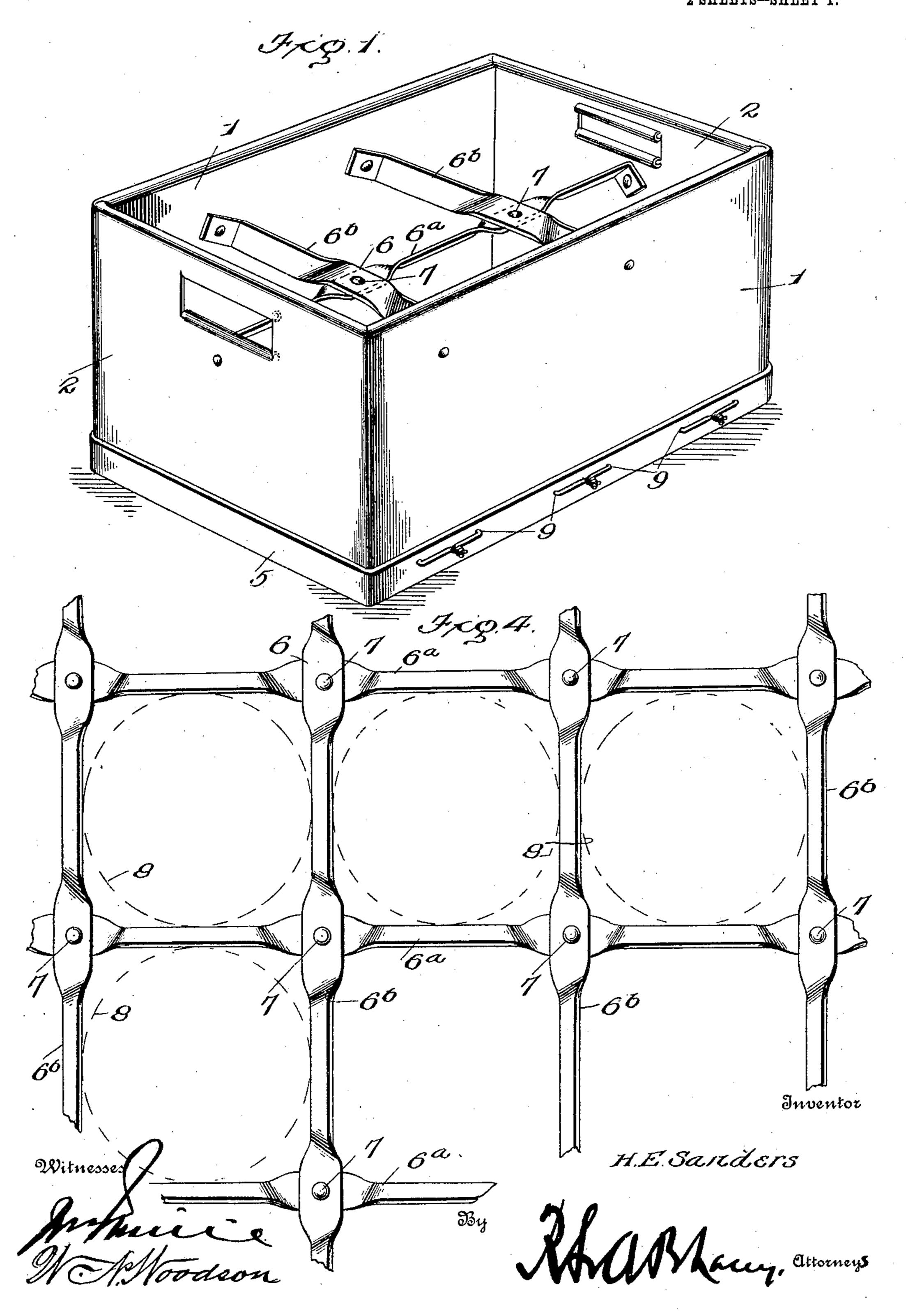
H. E. SANDERS. CASE FOR MILK BOTTLES.

APPLICATION FILED APR. 9, 1908.

917,156.

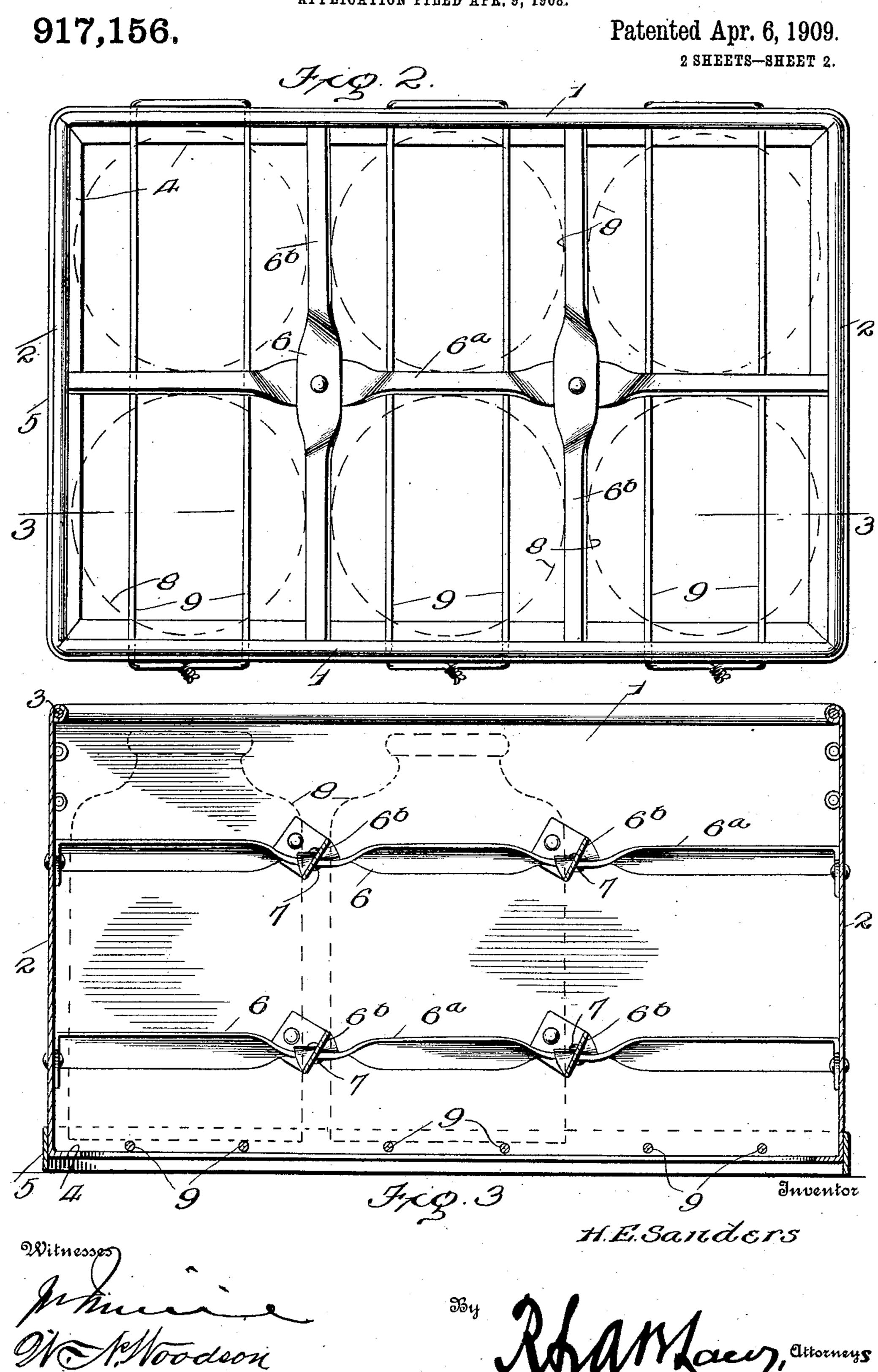
Patented Apr. 6, 1909.
2 SHEETS—SHEET 1.



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CASE FOR MILK BOTTLES.

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STATES PATENT OFFICE.

HARRY E. SANDERS, OF ZANESVILLE, OHIO.

CASE FOR MILK-BOTTLES.

No. 917,156.

Specification of Letters Patent.

Patented April 6, 1909.

Application filed April 9, 1908. Serial No. 426,100.

To all whom it may concern:

Be it known that I, HARRY E. SANDERS, citizen of the United States, residing at Zanesville, in the county of Muskingum and 5 State of Ohio, have invented certain new and useful Improvements in Cases for Milk-Bottles, of which the following is a specification.

The present invention relates to improve-10 ments in crates of that character which are commonly employed for the packing and transportation of bottles, and the object of the invention is the provision of a crate embodying a novel construction whereby the 15 bottles are effectively protected from injury.

The invention further contemplates a crate which is strong and durable in its construction and is so formed as to enable the various crates being superposed upon each 20 other without the necessity of utilizing the

ordinary stacking irons.

For a full understanding of the invention, and the merits thereof and also to acquire a knowledge of the details of con-25 struction and the means of effecting the result, reference is to be had to the following description and accompanying drawings, in which:—

Figure 1 is a perspective view of a crate 30 constructed in accordance to the invention; Fig. 2 is a top plan view of the same; Fig. 3 is a vertical longitudinal sectional view on the line 3—3 of Fig. 2; and, Fig. 4 is a plan view of a portion of a bottle positioning 35 frame constructed in accordance with the invention.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same

40 reference characters.

The crate is preferably of rectangular formation and comprises the oppositely disposed sides 1 and ends 2, the said members being formed of sheet material such as gal-45 vanized iron and having their upper edges rolled inwardly to receive a reinforcing wire 3. Extending around the bottom of the crate, which is open, is an inwardly projecting flange 4 which serves as a reinforcing 50 means. A band 5 is applied to the exterior of the crate and projects below the bottom thereof so as to hold the said bottom spaced from any support upon which the crate may be placed and prevent wear thereof. It will 55 also be obvious that when several crates are superposed upon each other, the bands 5 of |

the upper crates will engage the next lower crates in such a manner as to prevent lateral displacement of the crates relative to each other.

Arranged within the crate is a pair of spaced horizontal frames 6, each of the frames comprising a plurality of longitudinal strips 6a and transverse strips 6b, the said strips being riveted or otherwise securely 65 connected at their intersection as indicated at 7. Attention is directed to the fact that the portions of the strips 6^a and 6^b between the points of intersection are disposed at a slight angle to the vertical so that should 70 the bottles 8 which are inserted within the spaces formed by the frames be jolted against opposite sides of the same strip, one of the bottles will engage the upper edge of the strip and the opposite bottle the lower edge 75 of the strip, the bottles being thereby prevented from coming into contact with each other and the spring action of the strips serving to prevent injury thereof. The bottles 8 of each row rest upon a pair of trans- 80 verse rods 9 which extend across the bottom of the crate, the ends of the rods passing through the sides 1 and being secured to the band 5 upon the exterior of the crate. It will thus be apparent that with this im- 85 proved crate a free circulation of air will be permitted around the bottles and the said bottles will be effectively shielded from injury.

In constructing the bottle positioning 90 frame 6 any desired number of the longitudinal strips 6a and the transverse strips 6b may be employed according to the size of the crate and the number of bottles to be packed therein. In Fig. 4 is shown one of 95 these frames 6 which is of a size adapted to fit within a crate larger than that shown in the remaining figures of the drawings.

Having thus described the invention, what

1 claim as new is:— 1. The combination of a crate, and a bottle positioning frame arranged within the crate and formed of intersecting spring strips, the portions of the strips between adjacent bottles being disposed at an angle to 105 the vertical so that one of the bottles will engage the top of the strip while the opposite bottle engages the bottom thereof, the spring action of the strip serving to hold the bottles spaced and to prevent injury thereof. 110

2. The combination of a crate having an open bottom, a bottle positioning frame ar-

ranged within the crate and formed of intersecting spring strips, the portions of the strips between adjacent bottles being disposed at an angle to the vertical so that one of the bottles will engage the top of the strip while the opposite bottle engages the bottom thereof, the spring action of the strip serving to hold the bottles spaced and to prevent injury thereof, and transverse rods extending across the open bottom of the crate and serving to support the bottles.

the crate and serving to support the bottles.

3. The combination of a crate, a band applied to the exterior of the crate and pro-

jecting below the bottom thereof, bottle positioning means within the crate, and trans- 15 verse rods extending across the crate for supporting the bottles, the said transverse rods also passing through the before mentioned band so as to aid in retaining the band in position upon the crate.

In testimony whereof I affix my signature

in presence of two witnesses.

HARRY E. SANDERS. [L. s.]

Witnesses:

DAISY W. SANDERS, MYRTA CRANE.