E. VORSTER.

PACKING BOTTLES, &c. IN CASES.

No. 192,956. Patented July 10, 1877.

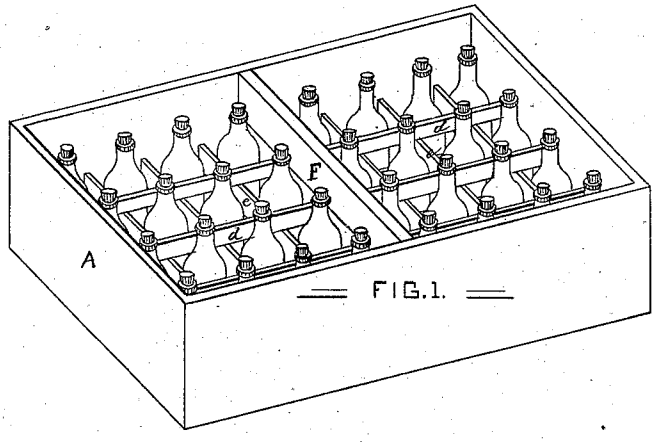


FIG. 1.

FIG. 2.

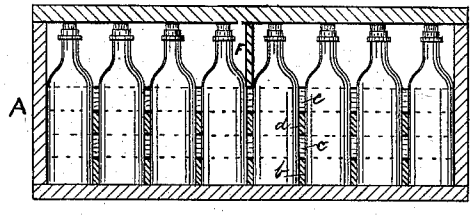
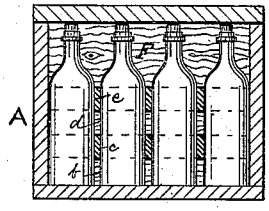


FIG. 3.



WITNESSES.

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EDWARD VORSTER, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN PACKING BOTTLES, &c., IN CASES.

Specification forming part of Letters Patent No. **192,956**, dated July 10, 1877; application filed May 8, 1877.

To all whom it may concern:

Be it known that I, EDWARD VORSTER, a resident of the city of New Orleans, parish of Orleans, and State of Louisiana, have invented a certain new and useful Improvement in Packing Bottles, &c., in Cases; and I do hereby declare the following to be a full, clear, and correct description of the same, reference being had to the annexed drawing, making a part of this specification.

This invention relates to a new, economical, and efficient means for packing bottles, jars, &c., whereby the hitherto unavoidable amount of breakage consequent to the rough handling to which the packages are more or less subjected in transportation is entirely obviated.

The nature of the invention will be readily understood by referring to the accompanying drawing, whereon—

Figure 1 represents a perspective view of a box, the cover of which is removed in order the better to exhibit my improved mode of packing. Fig. 2 represents a longitudinal sectional view; and Fig. 3, a cross-section of the said box with cover applied, as when ready for shipment.

My invention consists in applying two or more layers of thin strips of wood or other suitable material crosswise between each row of bottles, so as to form, as it were, a separate pigeon-hole for each bottle. The said strips are held in position by a key-strip, which is, in turn, secured by the cover of the box.

On the drawing, A represents a packing-box, in which the bottles are placed side by side, with sufficient space between each to receive edgewise strips of wood or other suitable material, *b c*. &c., cut in lengths about equal to the interior width or length of the box, according as they are to be applied.

In the present instance I first apply a short strip, *b*, between each parallel cross-row of bottles, and above these lay the long strips *c*, between each longitudinal row. A second row of short strips, *d*, is next laid above the long ones, and then another row of long strips, *e*, laid above these, when the packing is completed by means of a key-strip, F, which is placed on edge between the central cross-rows of bottles. The width of the key-strip should be about equal to the space between the top edges of the upper row of strips and the top of the box, in order that the cover, when applied, may keep it in position.

The key-strips—for one or more may be employed—form an important feature in my invention, inasmuch as they will answer equally as well for securing pigeon-holes (where made detachable) in their cases.

If desired, the key-strips may be secured to the sides of the box by means of nails or other suitable fastenings; but a preferable and cheaper plan will be to apply them as above mentioned.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a packing-case, the combination of one or more key-strips, F, with longitudinal and cross-strips, *b c* &c., as described, and for the purpose specified.

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Witnesses:
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