

June 12, 1934.

C. D. FALLERT

1,962,492

SHIPPING CASE

Filed April 14, 1933

2 Sheets-Sheet 1

Fig.1.

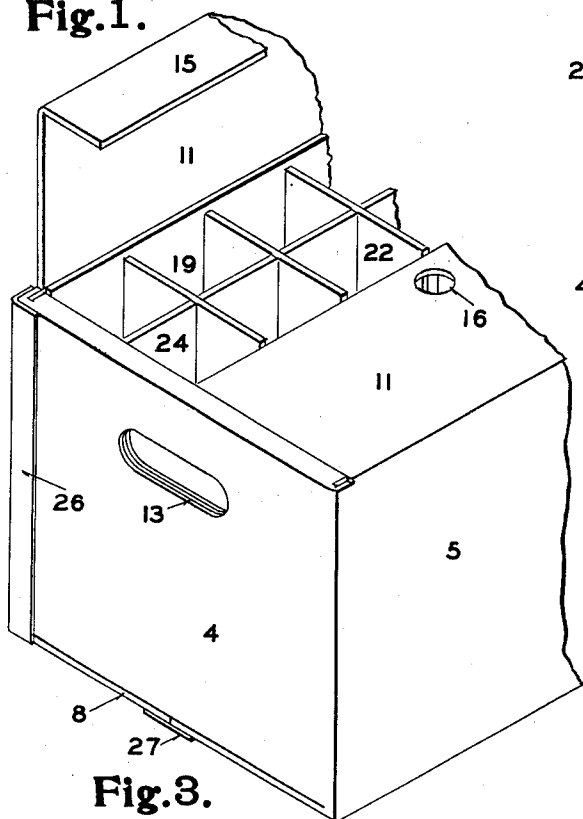


Fig.3.

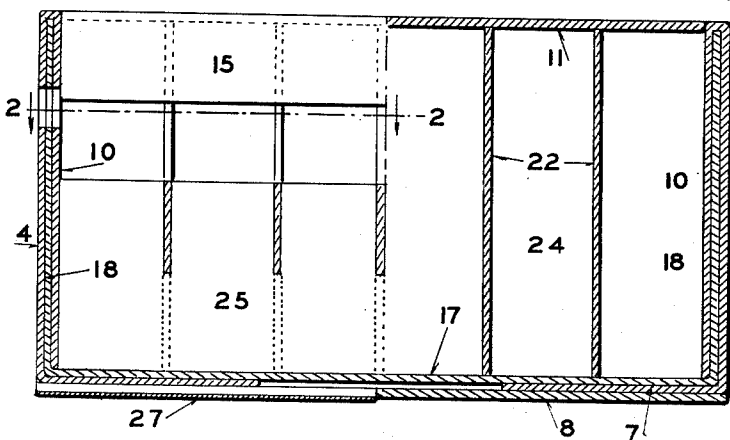


Fig.2.

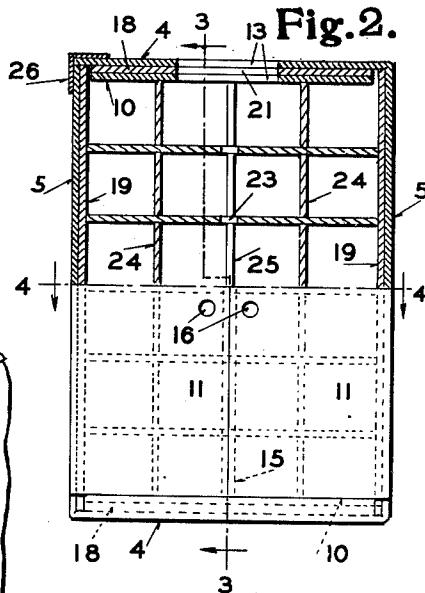


Fig.10.

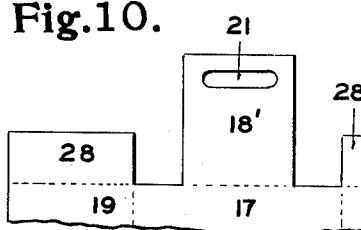
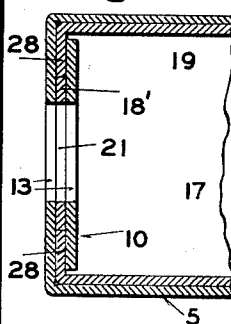


Fig.11.



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Fig.5.

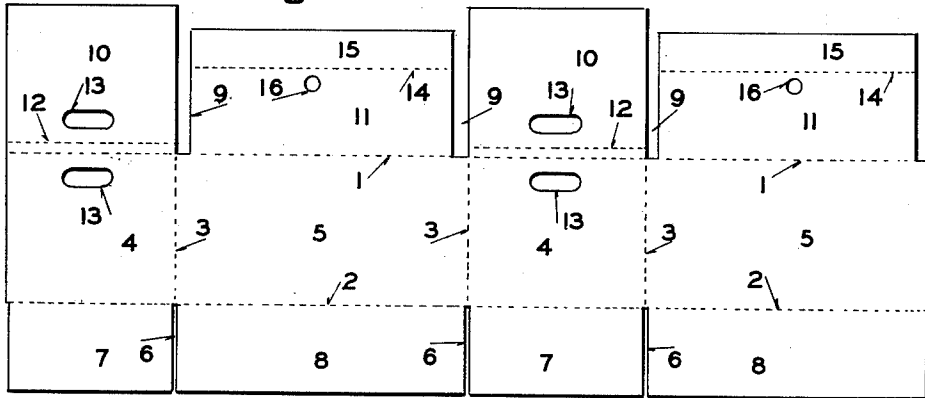


Fig.6.

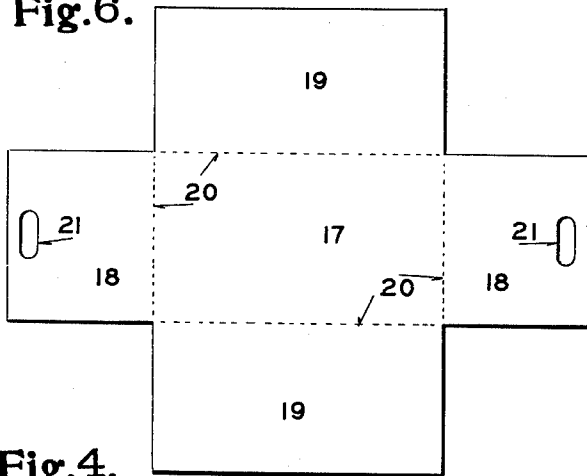


Fig.7.

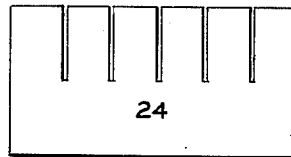


Fig.4.

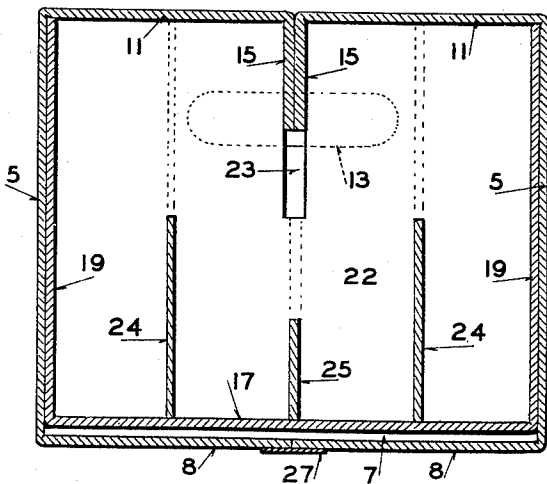


Fig.8.

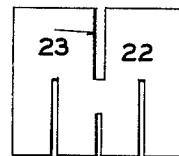
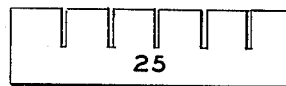


Fig.9.



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UNITED STATES PATENT OFFICE

1,962,492

SHIPPING CASE

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a corporation of Missouri

Application April 14, 1933, Serial No. 666,083

2 Claims. (Cl. 229—15)

My invention relates to a shipping case of the type adapted for the transportation of bottled goods, and particularly to such a case which, while formed wholly of solid or corrugated fiberboard, will have sufficient strength to withstand the hard usage to which such a case is subjected.

One object of my invention is to secure the necessary resistance and rigidity by means of a simple and easily assembled construction.

Another object of my invention is to provide a self-locking case, i. e., one in which the cover sections will be retained in closed position without the use of external locking means.

In the accompanying drawings, which illustrate a shipping case made in accordance with my invention, Figure 1 is a perspective view of one end of the case, one of the cover sections being raised; Figure 2 is a top view, partly in plan and partly in section on the line 2—2 of Figure 3; Figure 3 is a vertical section taken on the line 3—3 of Figure 2; Figure 4 is a vertical section taken on the line 4—4 of Figure 2; Figure 5 is a plan view of the blank from which the body of the case is formed; Figure 6 is a plan view of the blank from which the liner is formed; Figures 7, 8 and 9 are side elevations of the partition blanks; Figure 10 is a plan view of a portion of a liner blank, showing a modification; and Figure 11 is a horizontal section through one end of a case employing the modified form of liner, the partition being omitted.

The case is preferably formed of single wall, double face corrugated fiberboard, but for convenience of illustration, I have shown it as made of solid fiberboard. It comprises a body blank, as shown in Figure 5, and a liner blank, as shown in Figure 6. The body blank is divided by crease lines 1 and 2 into three parts, the central one of which is subdivided by crease lines 3 into a pair of end panels 4 and a pair of side panels 5. The portion below the line 2 is divided by slits 6 into a pair of inner sealing flaps 7 and a pair of outer sealing flaps 8 from which the bottom of the case is formed. The portion of the blank above the line 1 is divided by slots 9 into a pair of inner end panels 10 and a pair of cover sections 11.

Formed in the inner end panels parallel with the crease line 1, are crease lines 12. These lines are spaced a suitable distance from the line 1 to provide sufficient space between the panels 4 and 10 for the reception of a liner panel hereinafter to be described. Hand openings 13 are formed in the panels 4 and 10, so positioned as to register when the panels 10 are folded over

on the panels 4. Each of the cover sections 11 is provided adjacent its inner edge, with a crease line 14, providing a locking flange 15 and with a finger hole 16 for use in lifting the section.

The liner blank comprises a bottom panel 17, a pair of end panels 18, and a pair of side panels 19, the end and side panels being separated from the bottom panel by crease lines 20. Formed in each of the end panels 18 is a hand opening 21 so positioned as to register with the openings 13 in the panels 4 and 10 when the case is assembled.

The case is divided into compartments to receive bottles, by longitudinal and cross partitions, shown in detail in Figures 7, 8 and 9. When the case is designed to hold two dozen bottles, as shown, the former are three and the latter five in number. The cover partitions 22 are all alike and are each provided with a central slot 23 of sufficient width to receive the two locking flanges 15. The longitudinal partitions comprise a pair of side pieces 24 and a central piece 25. The partitions 22 and 24 extend to the top of the case and support the cover sections when the latter are closed, while the partition 25 is of less depth to provide room for the locking flanges 15.

To assemble the case the body blank is bent along the lines 3 to form a tubular structure, the free ends of the panels 4 and 5 being secured together by any suitable means, such as a strip of gummed tape 26. The bottom flaps 7 are first bent over at right angles to the end panels and then covered by the bottom flaps 8, the latter being fastened by a tape 27 to form a usual type of bottom closure. The panels 18 and 19 of the liner are now bent upward at right angles to the bottom panel 17 and the liner inserted in the case, after which the inner end panels 10 are bent over parallel with the outer end panels to enclose the panels 18 of the liner. The case is completed by the insertion of the partitions, the ends of which hold the panels 19 of the liner and the inner body panels 10 in position. When the cover sections are closed, the engagement of the flanges 15 with the slots 23 provides an efficient friction fastening to retain the cover in position. The cover sections may be raised by inserting a finger through one of the openings 16.

In Figures 10 and 11, I have shown a modification of the liner. In this modification the end panels 18' are made of less width than the case and the side panels 19 are provided with wings 28, preferably of sufficient width to abut

the edges of the panels 18' when bent over, as shown in Figure 11. These wings are included, together with the panels 18', between the panels 4 and 10 and materially increase the strength of the case at the corners.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. A packing case comprising a body including side and end walls joined to form a tubular structure, lower sealing flaps carried by said side and end walls to form a bottom, upper sealing flaps carried by said side walls to form a top, end panels carried by the end walls and adapted to be folded over parallel therewith, a liner comprising a bottom panel seated on the bottom sealing flaps and integral end panels positioned between the end walls and the first

named end panels, and a cellular partition structure in the case holding the end panels and end walls in position.

2. A packing case comprising a body including side and end walls joined to form a tubular structure, lower sealing flaps carried by said side and end walls to form a bottom, upper sealing flaps carried by said side walls to form a top, end panels carried by the end walls and adapted to be folded over parallel therewith, a liner comprising a bottom panel seated on the bottom sealing flaps and integral side and end panels, said end panels being positioned between the end walls and the first named end panels, the side panels lying against the side walls, and a cellular partition structure in the case holding the liner panels in position.

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