

Sept. 13, 1949.

R. C. POTTS

2,481,871

HANDHOLD AND CARD POCKET

Filed April 26, 1944

Fig. 2.

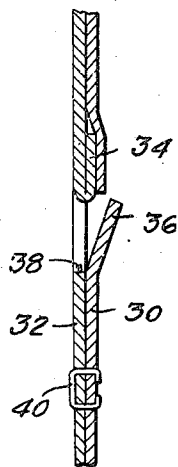


Fig. 1.

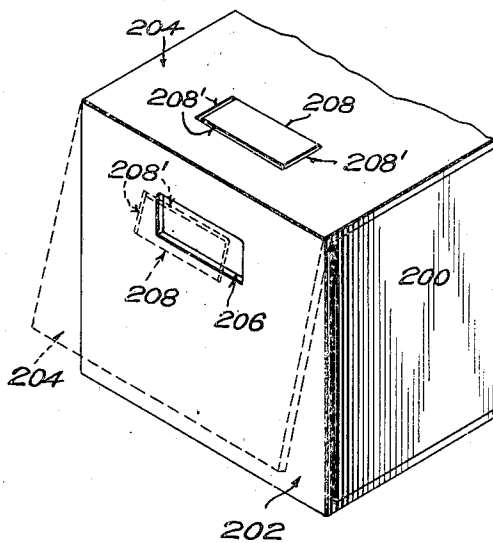
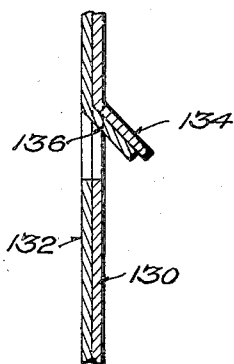


Fig. 3.



Inventor

Roy C. Potts,

334 *Roy C. Potts*
Attorney

UNITED STATES PATENT OFFICE

2,481,871

HANDHOLD AND CARD POCKET

Roy C. Potts, Takoma Park, Md.

Application April 26, 1944, Serial No. 532,816

3 Claims. (Cl. 229—52)

1

It is an object of this invention to provide a form of handhold for two-ply wall boxes which may be easily manufactured, and the principles of which may be adapted to varying requirements of the packaging problem.

It is a further object of this invention to provide a handhold pocket structure which will coact with a box lid to increase the advantages of each.

These and other objects will be made clear from the following detailed description taken in connection with the annexed drawings in which:

Fig. 1 is a partial perspective view of the application of my invention to a two-wall box having a hinged lid; and

Fig. 2 is a section through a double-thickness (two-ply) box wall showing a preferred form of handhold.

Fig. 3 is a view similar to Fig. 2, showing a handhold tongue in each ply attached to and projecting downward from the upper edge of the handhold.

Boxes of corrugated board and of solid fiber are constantly being used for more and more products, and for heavier loads. Such boxes have many advantages, not only of cost but of reduced tare weight, reduced storage and carrier space and improved appearance. As weight and size increase, however, certain disadvantages appear which it is the object of this invention to correct.

The surface of corrugated and solid fiber boards has a relatively low coefficient of friction. There is, therefore, a limit to the weight which a man can lift depending solely on a friction grip on the smooth box surfaces. This smoothness of surface, and the total lack of interruptions therein is a necessary characteristic of this class of box, and, in deed, is one of the merits of the class. It does not, however, make for ease of handling. I have devised two forms of handholds each embodying the principle of using only the material which must be used in the box in any event, and of providing only a minimum interruption of the smooth surface

In Fig. 1 I show a box 200 having a two-ply vertical wall 202 and a hinge type lid 204. As shown in dotted outline, the lid 204 may be swung away from the top of the box and brought to lie against the vertical wall 202. In the vertical wall 202, there is formed a handhold 206. In the lid 204 is formed a foldable tongue 208. This tongue is defined by slits 208' on three sides, but remains in the plane of the lid until ready for use.

In Fig. 2 I show an inner ply 30 and an outer

2

ply 32. The outer ply 32 has a tongue 34 struck therefrom and folded back to lie between the plies 30 and 32. The inner ply 30 has a tongue 36 struck therefrom or defined by score lines but which is not initially folded out of the plane of the ply 30. When it is desired to lift a box containing the construction of Fig. 2, the handler may displace the tongue 36 of the ply 30 to approximately the position shown in Fig. 2. This permits the insertion of the entire first joint or, if desired, the first and second joints of the handler's fingers, thus providing a firm grip adapted to a heavy load.

In Fig. 3 I show an inner ply 130 and an outer ply 132. As initially formed there is a tongue 134 formed in the inner ply 130 and a tongue 136 formed in the outer ply 132. These tongues are defined by perforations or die cuts along the three free edges but are not bent out of the plane of their respective plies until it is desired to use the handgrip. The handler will then push the tongues inwardly with his fingers and will thereby secure a grip having an effective width which is probably even greater than four thicknesses of box board. This form has the distinct advantage, first, that neither surface of the box wall has any projection at the time of loading; second, that there is no opening in the wall until the box is actually handled; and third, that there is no tendency to spread the free edges of the plies.

The lid will usually be of a single thickness, but, if of double thickness, the tongue 208 may be given the form of Fig. 3, but, in active position, its free edges should be on the upper side. The tongue 208 in the lid 204 is so located that, when the lid is swung to its dotted line position, the tongue 208 coincides with the handhold 206. This feature is of great importance where the nature of the contents is such that the box must be handled one or more times after it has been opened. This is particularly the case with standard egg crates, where the necessities of inspection, handling and repacking involve numerous handlings of the box in open condition.

While I have illustrated certain specific applications of the principles of my invention, I do not intend to be limited to the structures shown, but only as set forth in the subjoined claims, which are to be broadly construed.

I claim:

1. A box having a two ply vertical wall, a lid hingedly connected to said vertical wall, said lid being swingable so as to overlie the outside of said wall, a handhold opening in said wall, and a foldable tongue formed in said lid and so located

3

as to register with the handhold in said vertical wall when said lid is swung to lie against said vertical wall, and being sized and shaped to enter said handhold, whereby to give access to said handhold through said lid.

2. A box having a two-ply vertical wall, a lid integral with one ply of said vertical wall and being hingedly connected therewith; said lid being swingable so as to overlie the outside of said wall, a handhold opening in said wall and a foldable tongue formed in said lid and so located as to register with the handhold in said vertical wall when said lid is swung to lie against said vertical wall and being sized and shaped to enter said handhold whereby to give access to said handhold through said lid.

3. A box having a two-ply vertical wall, a lid hingedly connected to said vertical wall, said lid being swingable so as to overlie the outside of said wall, a handhold opening in said wall and a foldable tongue formed in said lid and so located as to register with the handhold in said vertical wall when said lid is swung to lie against said vertical wall and being sized and shaped to enter

4

said handhold and supplementarily to support said handhold.

ROY C. POTTS.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
654,545	Johnson	July 24, 1900
1,215,291	McCaskey	Feb. 6, 1917
1,981,647	Johnson	Nov. 1, 1934
2,004,197	Ethridge	June 11, 1935
2,013,874	Whalley	Sept. 10, 1935
2,041,170	Dorsey	May 19, 1936
2,078,087	Lincoln	Apr. 20, 1937
2,149,955	Burns	Mar. 7, 1939
2,151,472	Hubbard	Mar. 21, 1939
2,192,412	Reaume	Mar. 5, 1940

FOREIGN PATENTS

Number	Country	Date
507,958	Great Britain	June 23, 1939