This invention relates to containers and more particularly to an all plastic shallay box with a removable cover.

An object of the present invention is to provide a plastic box having a body with means for preventing the box bodies from sticking together when stacked.

Another object of the invention is to provide a plastic box and cover having stiffening ribs.

Still another object of the invention is to provide a plastic box of this kind with improved means for holding the cover on the box body.

It is also proposed to provide a plastic box of this kind that is simple in construction, economical to manufacture and attractive in appearance.

For further comprehension of the invention and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings and to the appended claim in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

FIGURE 1 is a top perspective view of a box embodying the invention, the cover being shown in closed position.

FIG. 2 is a top perspective view of one half of the box with the cover shown removed from the box body.

FIG. 3 is a vertical sectional view taken on the line 3—3 of FIG. 1, with the cover removed, on an enlarged scale.

FIG. 4 is a vertical sectional view taken on the line 4—4 of FIG. 1, on an enlarged scale.

FIG. 5 is an enlarged bottom plan view of one corner of the cover.

FIG. 6 is a top plan view of one corner of the box body.

FIG. 7 is a vertical sectional view taken on the line 7—7 of FIG. 1, the cover being shown removed, on an enlarged scale.

FIG. 8 is an end elevational view of several boxes of FIG. 1 in stacked relation.

FIG. 9 is an enlarged vertical sectional view taken on the line 9—9 of FIG. 8, and

FIG. 10 is a horizontal sectional view taken on the line 10—10 of FIG. 1, on an enlarged scale.

Referring now in detail to the various views of the drawings, in FIGURE 1 a box made in accordance with the invention is shown and designated generally at 10. The box 10 is formed of suitable sheet plastic material of the thermo-plastic or thermostoring type and may comprise plastics of the phenolic, urea, cellulose-acetate or other type of synthetic plastics which may be moulded or extruded. The material may be any thickness, from wafer thin upwards.

The box 10 comprises an elongated one-piece body or base 12 and one-piece removable cover 14. The box body or base 12 and cover 14 may be opaque, transparent or translucent.

The box body or base 12 is rectangular in shape and shallay with a bottom wall 16, downwardly and inwardly slanting side walls 18 and 20 and an open top 17, as viewed in FIGS. 1 and 2. The top edges of the side and end walls are formed with a continuous outwardly extending flange providing a seat 22 for the cover 14. At its outer edge, the flange 22 extends perpendicularly or upwardly as viewed in FIGS. 1 and 2 forming an upwardly extending continuous flange 24, and then continues into a slightly outwardly slanting flange 26.

In accordance with the invention along the upright flange 24 outwardly of the side walls 18 of the box body or base 12 there are instruct integral lugs 30, 32 and outwardly of the end walls 20 there are similar instruct lugs 32, 32. A space 34 is provided underneath each lug.

Furthermore, in accordance with the invention spaced along the side walls 18 and end walls 20 there are a plurality of instruct vertical ribs 36 as viewed in FIGS. 1 and 2 extending from the seat 22 downwardly and inwardly to the bottom wall 16 and intersecting the junctures between the bottom wall and side and end walls.

The plastic cover 14 is constructed similarly to the body or base 12 and is approximately of the same dimensions having a base or bottom wall 40, inwardly shalling side walls 42, 42 and end walls 44, 44, with the instruct ribs 46 and 48 thereon, respectively. An outwardly extending integral flat flange 50 extends around the outer edges of the side and end walls.

In use, the cover 14 closes the open top of the body or base 12 by inverting the body or base 40 and pressing the flange 50 downwardly onto the seat 22 on the base 12, the edge of flange 50 snapping over the locating lugs 30 and 32 into the spaces 34 therebelow thereby interlocking the cover on the box body. The cover 14 can readily be removed by manually squeezing the sides 18, 18 of the box body and lifting the cover off of the body.

The box body 12 and the cover 14 may be readily nested with the cover inside the box body for use and disposal, and the nested units may be readily stacked, opening upwardly as shown in FIGS. 8 and 9, with the flanges 22 of the box bodies seating on the flanges 50 of the covers 14 as best seen in FIG. 9.

By reason of the stacking lugs 30 and indentations constituting the ribs 36, the box bodies or bases 12 may be readily stacked on top of each other, independent of the covers 14, as shown in FIGS. 9 and 10, being nested in spaced relation preventing binding and permitting easy removal of the top body or base from the stack.

The covers 14 may also be stacked on top of each other, independent of the box bodies or bases 12, by means of the indentations constituting stacking ribs 42. When so stacked, the covers can be readily removed one at a time.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and that various changes and modifications may be made within the scope of the invention as defined in the appended claim.

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

An all plastic box comprising an elongated shallow body rectangular in configuration having slanting side and ends walls, said side and end walls terminating in a continuous outwardly extending flange therearound forming a seat, and said seat continuing into a perpendicularly extending flange, and a removable cover on said seat, said cover having outwardly shalling side and end walls, terminating in a continuous outwardly extending flange therearound adapted to seat on the flange on the side and end walls of the body and spaced instruct lugs on the perpendicularly extending flange adjacent the seat spaced to interlock with the flange on the cover for holding the cover on the body, and spaced ribs instruct in the side and end walls of the body and cover, said ribs
extending from the flanges on the body and cover to the juncture of the bottom walls and side and end walls thereof.

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