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K. W. IRVAN

2,606,708

PLASTIC MOLDED BOX

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FIG. 1.

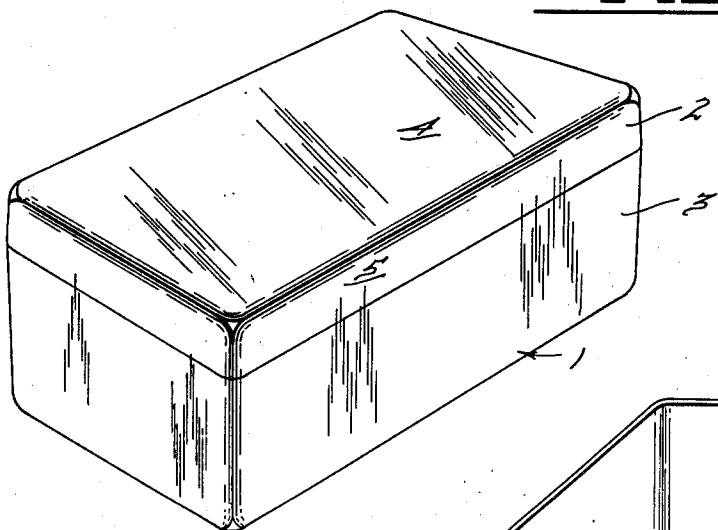


FIG. 2.

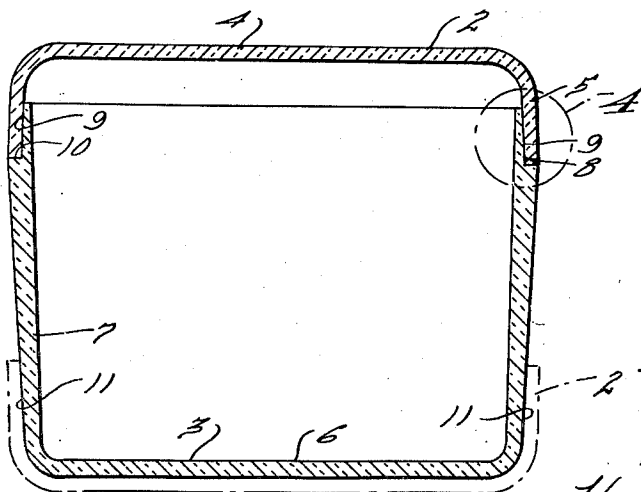
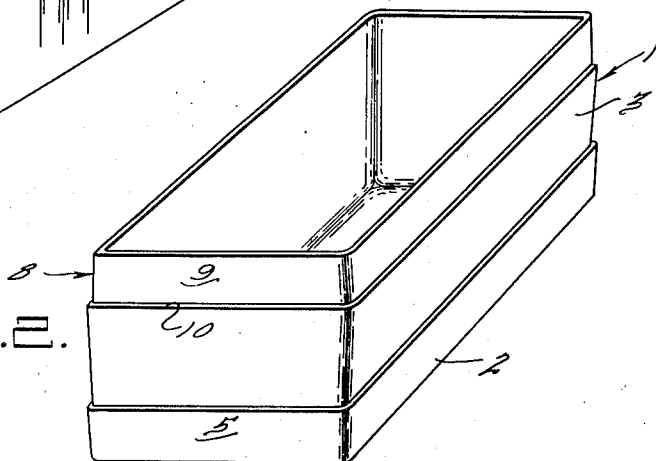


FIG. 3.

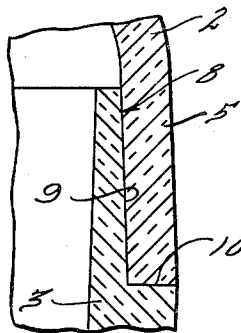


FIG. 4.

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PLASTIC MOLDED BOX

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2 Claims. (Cl. 229—2.5)

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This invention relates to receptacles and, in particular, refers to receptacles of the type comprising separable box and cover portions.

It is an object of the invention to provide integral box and cover portions formed of molded plastic which unite to form a receptacle of pleasing and streamlined appearance.

Another object of the invention is to provide a receptacle of the type referred to in which the cover portion may be snugly seated on the exterior bottom section of the box, when it is desired to expose the interior of the box for an extended period of time, without increasing the maximum overall dimensions of the box.

Receptacles constructed in accordance with the principles of this invention are useful in a wide variety of applications. They are particularly desirable in cases where a plurality of boxes are needed which must be neatly and efficiently stored in a small space and which are used in such a manner that it is convenient to have the covers removed for extended periods of time. A typical application in which such conditions are found is in the storage of fish baits in a tackle box. Here it is desired to box the baits separately and to arrange a plurality of bait containing receptacles in an orderly manner within the tackle box. The streamlined construction of the receptacles herein disclosed permits such a neat and compact arrangement. During the period when the baits are being used it is convenient to have the covers removed from the bait receptacles so that the baits may be easily replaced or withdrawn therefrom. In using receptacles constructed in accordance with this invention, the covers may be fitted on the undersides of the boxes so that they will not be misplaced while at the same time they do not increase the bulk of the receptacles or interfere with the original orderly arrangement thereof. A further desirable feature of the receptacle herein disclosed is that it is adapted to be formed of plastic and, in the case of the fish baits, may be attractively constructed of a transparent plastic, such as clear polystyrene, so that the contents thereof may be observed with the cover in place.

A preferred embodiment of the invention illustrating the principles and the means whereby the foregoing and other objects and features of the invention are accomplished is shown in the drawings in which:

Figure 1 is a perspective view of a closed receptacle constructed in accordance with the principles of the invention;

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Fig. 2 is a perspective view showing the receptacle of Fig. 1 in opened position;

Fig. 3 is an enlarged lateral cross section through the receptacle; and

Fig. 4 is an enlarged view of the structure included within the confines of the line 4 of Fig. 3.

As indicated in Figs. 1 and 2, the receptacle 1 comprises separable cover and box portions 2 and 3, respectively, which though shown as rectangular, may be of any desired shape. Both the cover and box are of one piece or integral construction with rounded edges and corners such as may be obtained by injection of a molding of a suitable plastic material, clear polystyrene, for example. Thus, the cover 2 comprises a top 4 and a side wall 5 extending entirely around the top, the top and side wall being of uniform thickness, and the box 3 comprises a bottom 6 and a side wall 7 extending entirely around the bottom. The side walls 5 and 7 are preferably tapered outwardly a slight amount to provide the usual draft for molding.

For the sake of appearance and compactness, it is desirable that the cover 2 fit on the box 3 so that the exteriors of the side walls 5 and 7 are flush or streamlined. For this purpose, the top of the side wall 7 of the box is provided with a recess 8 having an upwardly extending surface 9 and a shoulder 10, which, when molding the box, lies in the parting plane. The shoulder 10 has a lateral dimension substantially equal to the thickness of the cover side wall 5 so that the cover 2 seats on the shoulder and is flush with the exterior of the box 3. The surface 9 is tapered upwardly in an upward direction at the same angle as the outward taper of the cover side wall 5 so as to fit the cover snugly in the manner shown in Fig. 3.

As hereinbefore indicated, the underside of the box 3 is adapted to receive the cover 2. For this purpose the exterior surface of the box sides 7 are tapered inwardly in a downward direction to a slightly greater degree than the draft angle of the inner surfaces, this taper extending from the shoulder 10 to the bottom 6 of the box. This taper is preferably the same as the taper of wall 9, though in a reverse direction. The box is preferably of such depth in relation to the exterior taper that the bottom section 11 thereof has overall or cross box dimensions which are substantially identical to those of wall 9. It will be recognized that these dimensions are substantially equal to the interior dimensions of the cover 2. Thus, when the cover is placed on the underside of the box 3, the maximum overall di-

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mensions of the box will not be increased as will be recognized from Figure 2 and the dotted lines in Fig. 3, and the cover will fit snugly on the bottom of the box.

It will be understood that the invention is not limited specifically to the details described above but comprehends various modifications such as will appear to those skilled in the art.

What is claimed is:

1. A molded plastic receptacle comprising a box and a cover, each of said box and cover having side walls inclined slightly outwardly to provide a draft for molding, the upper exterior portion of said box wall having a recess adapted to snugly receive said cover and defining a shoulder having a width substantially equal to the thickness of the cover side wall whereby the side walls of the cover and box are substantially flush in assembly, the exterior of said box side wall being tapered from the shoulder to the bottom thereof to external dimensions substantially equal to the dimensions of said recess and to internal dimensions of the cover to provide a snug seat for the cover.

2. A molded plastic receptacle comprising a box portion having integral bottom and side walls, said side wall being slightly inclined outwardly to provide a draft for molding and being of increasing thickness from the bottom toward the top of the box so that the outer surface of the side wall tapers at an angle slightly greater than the inner surface, the upper exterior portions of the side wall having a cover receiving re-

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cess providing an inwardly extending shoulder and an upwardly extending wall portion of decreasing thickness tapering at substantially the angle of taper of the side sections but in a reverse direction and having substantially the same cross box exterior dimensions as those of the bottom exterior portion of the box, and a cover having integral top and side walls, the side wall of the cover being inclined slightly outwardly and the same portions thereof being adapted to fit the recess wall and the bottom portions of the box and to seat on the shoulder, the side wall of the cover being of substantially the same width as said shoulder whereby the outer surfaces of the box and cover side walls are substantially flush in assembly.

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