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PLASTIC MOLDED BOX WITH NOVEL LID

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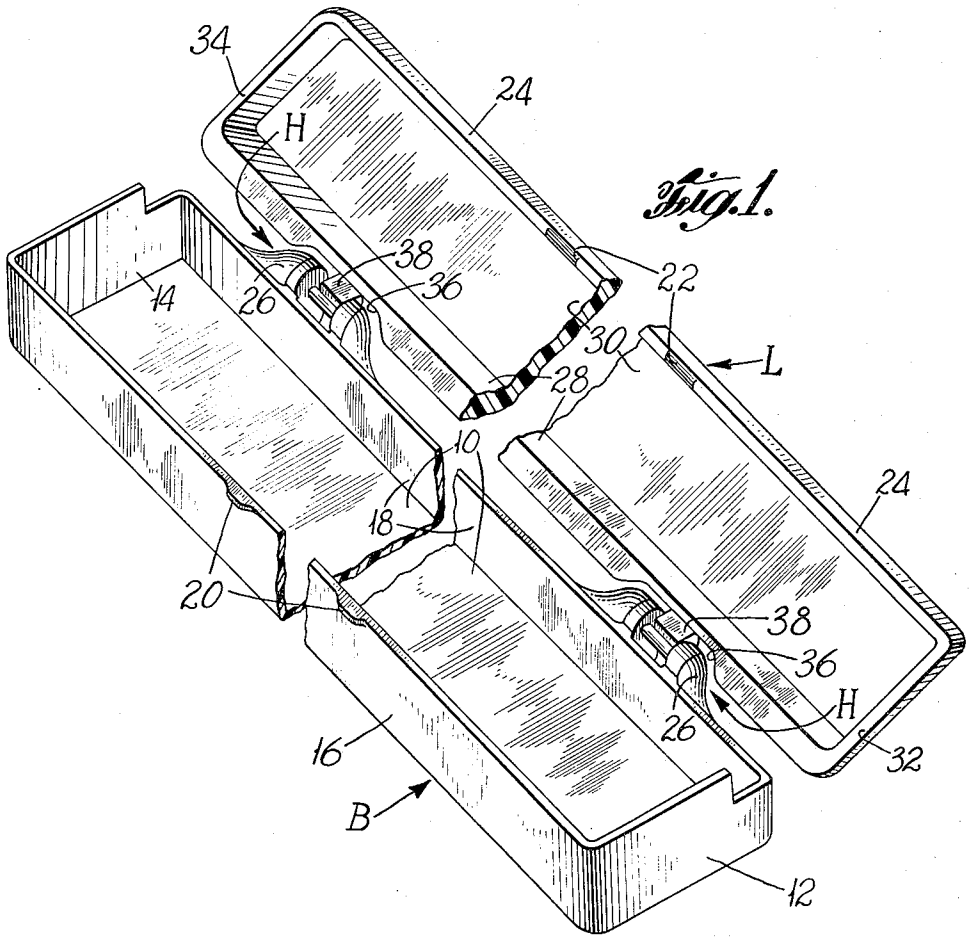


Fig. 1.

Fig. 2.

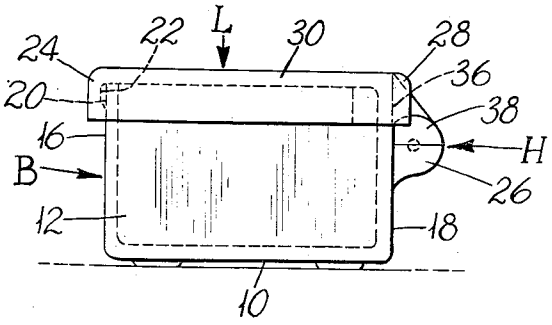
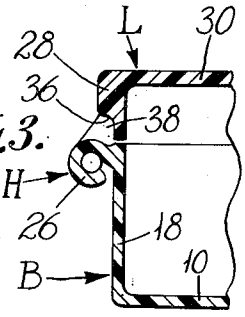


Fig. 3.



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PLASTIC MOLDED BOX WITH NOVEL LID

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This invention relates to a box and a novel hinged lid therefor, and its principal object is to provide a box having a novel flanged lid which, when closed on the box, has three of its flanges substantially overlapping three of the walls of the box and the fourth flange resting on the top of the fourth wall of the box.

Broadly stated, the object of the invention is accomplished by having the rear flange of the hinged lid of a greater thickness than the other flange of the lid and by relieving this extra thickness of the rear flange in the area about the male members of the hinges. The top of the rear wall and adjacent portions of the end walls of the box are "cut-out" to receive the rear flange of the lid.

The invention will be more readily understood by reference to the accompanying drawings, wherein:

FIG. 1 is a broken perspective view of the hinged box in the open position; and

FIG. 2 is an end elevation of the box shown in FIG. 1, in the closed position; and

FIG. 3 is a partial sectional view of a modification in the recessed sections in the rear flange of the lid.

Referring now to FIGS. 1 and 2, the box B comprises a base 10, end walls 12 and 14, a front wall 16, and a rear wall 18; the top of the walls all being substantially flat. At the top of the front wall 16 are tabs 20 for engaging, when the lid L is closed on the box B, lipped recesses 22 provided in the front flange 24 of the lid L. The rear wall 18 of the box B is provided at its top with the female members 26 of the hinges H. It will be observed that the rear wall 18 and a small portion of the end walls 12 and 14 adjacent the rear wall 18 are "cut-out" that is to say, have a smaller vertical height than the remaining walls.

The lid L comprises the above mentioned front flange 24 and rear flange 28 as well as top 30 and end flanges 32 and 34. The rear flange 28 is of a greater thickness than the other flanges, approximately double thickness being suitable, and is provided with, in recessed sections 36, the male members 38 of the hinges H. As shown in FIG. 3, the rear flange 28 need only be partially recessed, that is to say, recessed about the lower edge of the rear flange 28 the amount required for the lid L to clear the female portions 26 of the hinges H when the lid L is being opened or closed.

The combination of the recesses in and the double thickness of the rear flange of the lid in cooperation with the cut-out of the rear wall and adjacent portions of the end walls of the box allows the lid L when it is closed on the box to overhang the front and end walls and to rest on the rear wall of the box. The adjacent cut-out portions in the end walls permit the unobstructed pivot of the thicker rear flange.

The above features allow the female members of the hinges to be placed at the top of the rear wall and this greatly simplifies the molding operation of the plastic box.

What is claimed is:

1. The combination of a box and flanged lid therefor, said lid being attached to said box by at least one hinge which comprises a female member on a wall of said box and a male member on a flange of said lid, the pivotal axis of said hinge being below the top of said wall and displaced away from said wall and said flange of said lid, said flange of said lid having said male member of said hinge, being of a greater thickness than the remaining flanges of said lid, said thickened flange being recessed about said male member of said hinge, said box being cut-out along the top for the entire length of said wall having said female member of said hinge and in adjacent portions of the adjacent walls of said box, all of said walls of said box having substantially flat top surfaces, said thickened flange of said lid resting on the top of said wall having said cut-out when said lid is closed on said box, said remaining flanges of said lid overlapping the remaining parts of said walls of said box.

2. The combination of a box and flanged lid therefor, said lid being attached to said box by a plurality of hinges, each of said hinges comprising a female member on the rear wall of said box and a male member on the rear flange of said lid, the pivotal axes of said hinges being below the top of said rear wall and displaced away from said wall and said flange of said lid, said rear flange of said lid being of a greater thickness than the remaining flanges of said lid, said thickened rear flange being recessed about said male members of said hinges, said box being cut-out along the top for the entire length of said rear wall and in adjacent portions of the adjacent walls of said box, all of said walls of said box having substantially flat top surfaces, said thickened rear flange of said lid resting on the top of said rear wall having said cut-out when said lid is closed on said box, said remaining flanges of said lid overlapping the remaining parts of said walls of said box.

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