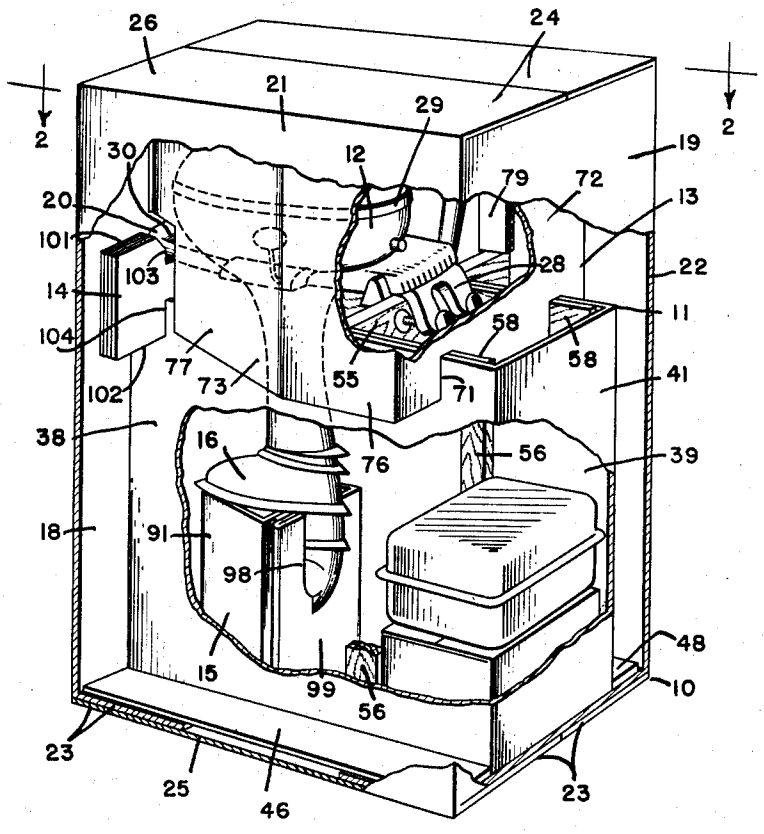
July 15, 1958 P. F. BOEYE 2,843,258

OUTBOARD MOTOR PACKAGE

Filed Oct. 8, 1956 3 Sheets-Sheet 1

FIG. 1



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FIG. 3

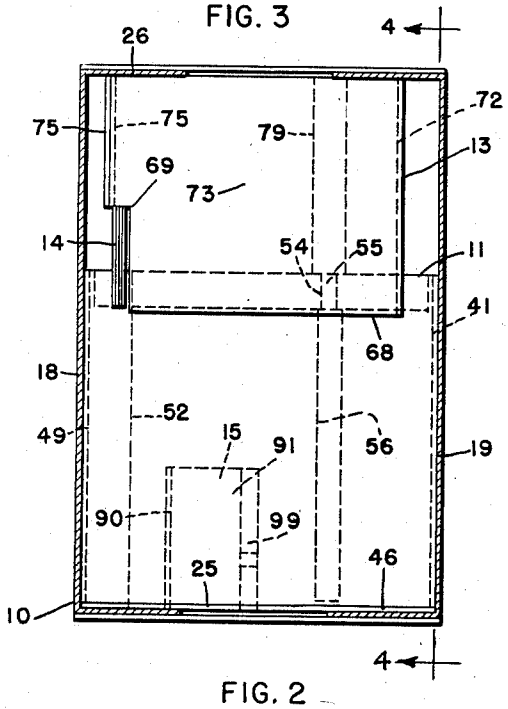


FIG. 4

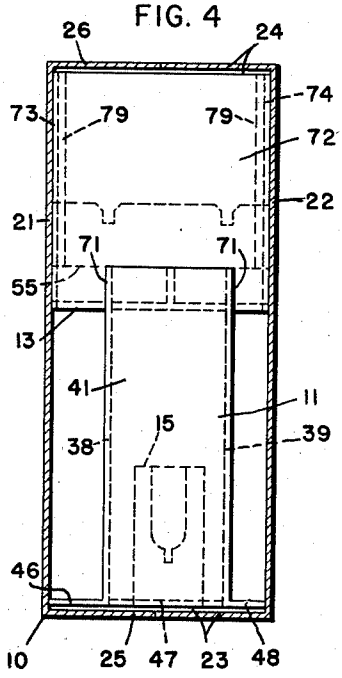


FIG. 2

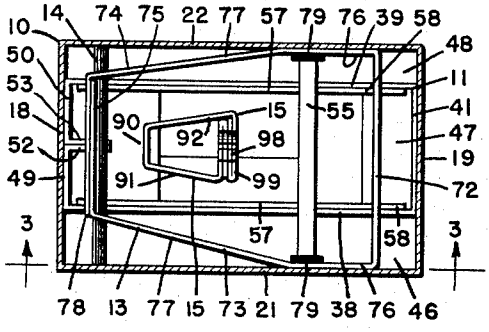


FIG. 5

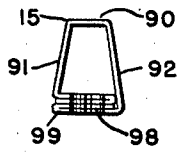
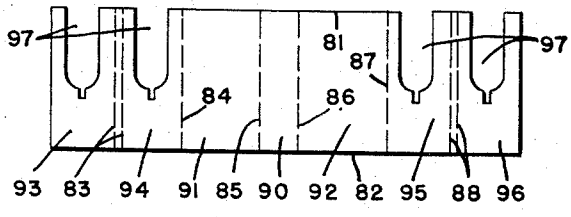


FIG. 10



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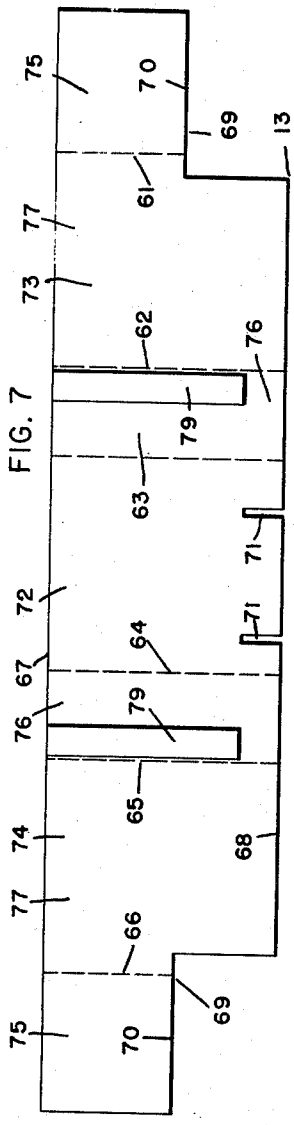


FIG. 7

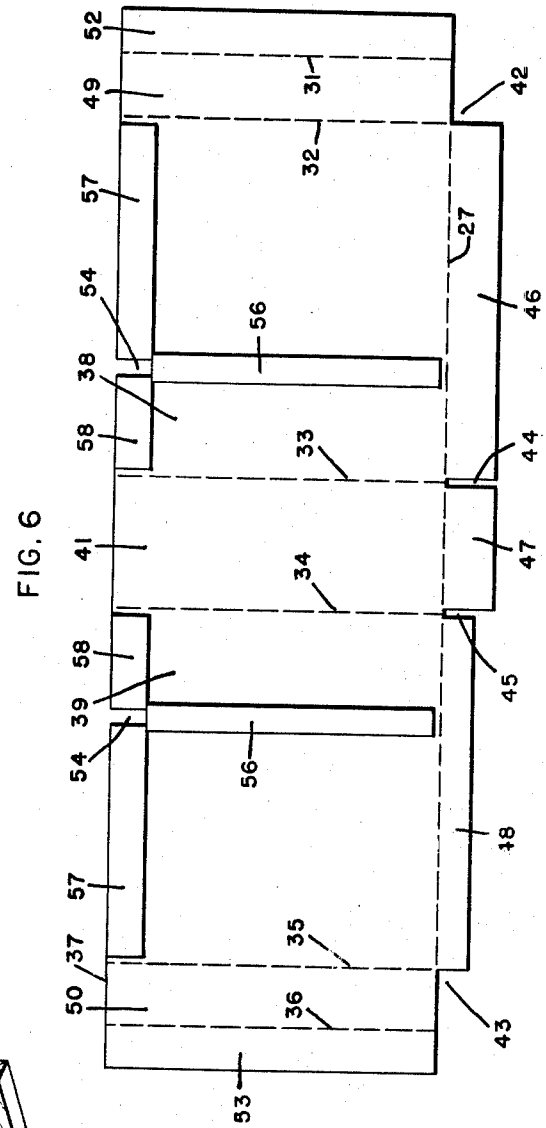


FIG. 6

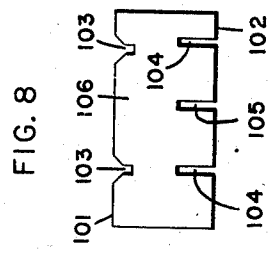


FIG. 8

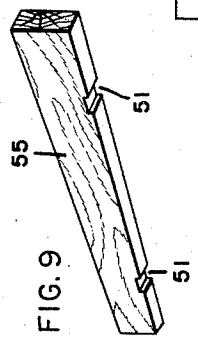


FIG. 9

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2,843,258

OUTBOARD MOTOR PACKAGE

Paul F. Boeye, Mound, Minn.

Application October 8, 1956, Serial No. 614,656
13 Claims. (Cl. 206—46)

The herein disclosed invention relates to packages for carrying outboard motors and has for an object to provide a package whereby the motor may be protected from injury during shipment and storage.

Another object of the invention resides in providing a container having an insert therein and on which the motor is mounted.

Another object of the invention resides in providing a shroud within the container overlying the motor and assisting in further holding the motor mounted on the insert and in protected position within the container.

A still further object of the invention resides in constructing the insert U-shaped in form with legs spaced from the sides of the container and with a connecting portion therebetween engaging one end of the container and with flanges at the ends of the legs engaging the other end wall of the container

An object of the invention resides in providing notches at the upper ends of said insert and in inserting in said notches a crossbar on which the motor is clamped.

A feature of the invention resides in providing posts attached to the legs of the insert and on which the crossbar rests.

An object of the invention resides in providing rails attached to the upper marginal portions of the insert and engaging the flanges and the connecting portion of the insert and said crossbar.

Another object of the invention resides in providing flanges issuing outwardly from the lower ends of the insert and engaging the side walls of the container.

An object of the invention resides in constructing the shroud with a transverse member extending across the insert and longitudinal members connected to the transverse member and engaging the side walls of the container, said transverse member having notches therein receiving the upper marginal portions of the legs of the insert to maintain the space between the legs and side walls at the upper ends of said legs.

A feature of the invention resides in constructing the shroud with the upper ends of the transverse and longitudinal members thereof engaging the top of the container to hold the shroud in engagement with the insert.

Another object of the invention resides in providing a retainer having a tongue extending through the handle of the motor and partially supporting the motor and preventing turning thereof.

Another object of the invention resides in providing a boot disposed at the lower portion of the insert and supporting and protecting the propeller and the substructure of the motor.

Other objects of the invention reside in the novel combination and arrangement of parts and in the details of construction hereinafter illustrated and/or described.

In the drawings:

Fig. 1 is a perspective view of an outboard motor package with portions cut away and illustrating an embodiment of the invention.

Fig. 2 is a plan sectional view taken on line 2—2 of Fig. 1.

Fig. 3 is an elevational-sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is an elevational-sectional view taken on line 4—4 of Fig. 3.

Fig. 5 is a plan view of the boot of the invention.

Fig. 6 is a developed view of the blank from which the insert is constructed.

Fig. 7 is a developed view of the blank from which the shroud is constructed.

Fig. 8 is a developed view of the blank from which the retainer is constructed.

Fig. 9 is a perspective view of the crossbar of the invention.

Fig. 10 is a developed view of a blank from which the boot is constructed.

For the purpose of illustrating the application of the invention, an ordinary outboard motor 12 has been shown in the drawings. This motor comprises a housing 29 in which the engine proper is disposed. Depending therefrom is a substructure 16 including a propeller, not shown. A handle 20 is mounted on the housing and is formed with an opening 30 therein. Below the housing, clamps 28 are provided by means of which the motor may be secured to the transom of the boat.

The invention consists of a container 10 of ordinary construction. In this container is mounted an insert 11 and on which the motor 12 is mounted. A shroud 13 overlies insert 11 and is connected thereto. This shroud encloses and protects the body of the motor and also holds the upper portion of the insert 11 in proper position. A retainer 14 is mounted on the insert 11 and assists in supporting the body 12 of the motor. In addition, a boot 15 engages the substructure 16 of the motor and protects the propeller thereof.

The container 10 is constructed from corrugated board and is scored to form end walls 18 and 19, side walls 21 and 22, and flaps 23 and 24 issuing from opposite ends thereof. The flaps 23 are folded over and secured together to form a bottom 25 while the flaps 24 may be similarly folded over and secured together after the motor and other parts are contained within the container to form a top 26.

The insert 11 is also constructed of corrugated board and is constructed from a blank shown in detail in Fig. 6. This blank has a longitudinal score 27 spaced from the lowermost edge thereof and a number of transverse scores 31, 32, 33, 34, 35 and 36 which extend from the upper edge 37 of the blank and to the score 27. By means of this construction, the blank, when folded along the said scores, forms a U-shaped structure having two legs 38 and 39 with a connecting portion 41 therebetween. The lowermost marginal portion of the blank outwardly of the score 27 is formed with notches 42 and 43 at the ends of the blank and terminating at the scores 32 and 35. In addition, the blank is formed with kerfs 44 and 45 lying in continuation of the scores 33 and 34 and outwardly of the score 27. By means of this construction, flanges 46, 47 and 48 are formed at the lower edges of the legs 38 and 39 and the connecting portion 41. Also, flanges 49 and 50 are formed at the outer edges of the legs 38 and 39 and flaps 52 and 53 issuing outwardly from the flanges 49 and 50. The legs 38 and 39 are formed with notches 54 which receive a crossbar 55 constructed of wood and shown in detail in Fig. 9. Attached to the legs 38 and 39 are posts 56 which extend from a short distance above the score 27 and to the lower edges of the notches 54. In addition, rails 57 and 58 are attached to the upper marginal portion of the legs 38 and 39 and extend from within short distances of the scores 32, 33, 34 and 35 and up to the lateral edges of the notches 54. The crossbar 55 has notches 51 which straddle the legs 38 and 39 and the posts 56 and prevent lateral movement of the central upper portion of the insert. When the blank is properly folded, the same occupies the position shown in Figs. 2, 3 and 4 and in which the flanges 46 and 48 are folded outwardly and rest upon the bottom 25. These flanges, in such position, engage the side walls 21 and 22 of the container. The legs 38 and 39 are of such length that

the connecting portion 41 engages the end wall 19 of the container and the flanges 50 and 49 engage the end wall 18. The height of the insert 11 is less than the height of the container so that the motor 12, when mounted therein and clamped to the crossbar 55, approximately occupies the position shown in Fig. 1.

The shroud 13 is constructed from corrugated board and is provided with transverse scores 61, 62, 63, 64, 65 and 66 which extend from the upper edge 67 thereof and to the lower edge 68 thereof. In the outer lower corners of the blank from which the shroud is constructed are formed notches 69 and in the intermediate portion of the blank are formed kerfs 71. By means of this construction, the blank is divided into sections which, when folded, form a transverse member 72 and longitudinal members 73 and 74. Issuing from the longitudinal members are flanges 75. When the blank is folded, as shown in Fig. 2, the longitudinal members become divided into sections 76 and 77 which are bent slightly relative to one another. The sections 76 lie along the side walls 21 and 22 of the container 10 while the sections 77 converge toward each other. The flaps 75 are glued together to form an end 78 for the shroud. It will be noted that the end 78 and the transverse member 72 fall short of the end walls 18 and 19 of the container. Kerfs 71 are so positioned as to receive the legs 38 and 39 of the insert 11 and to straddle the rails 57 thereof. Attached to the sections 76 of the longitudinal members 73 and 74 of the shroud 13 are struts 79 which may be constructed of corrugated board or wood and are disposed adjacent the scores. These struts lie above the ends of the crossbar 55 and in the plane of the posts 56. The length of the crossbar 55 is such that the ends of the same are engaged by these struts and are cushioned thereby.

The boot 15 of the invention is constructed from a blank of corrugated board best shown in Fig. 10. This blank is elongated in form having upper and lower edges 81 and 82. Extending across the blank are a number of scores 83, 84, 85, 86, 87 and 88 which extend from the edge 81 to the edge 82. This construction divides the blank into sections which form an end wall 90, side walls 91 and 92, and a number of flaps 93, 94, 95 and 96. In these flaps are formed notches 97 of the shape shown in Fig. 10. The blank is folded up as illustrated in Fig. 5 and the flaps 93, 94 and 95 are interleaved and secured together to form an end wall 99. When so disposed the notches 97 form a composite opening 98 which receives the substructure 16 of the motor 12. The lower edge 82 of the boot 15 rests upon the bottom 25 of the container 10.

The retainer 14 is constructed from a number of blanks, one of which is shown in detail in Fig. 8. This blank is elongated in form having an upper edge 101 and a lower edge 102. In the marginal portion of the blank at the edge 101 thereof are formed notches 103 while in the marginal portion of the edge 102 are formed kerfs 104 and 105. When a number of these sections are secured together in overlying position the notches 103 and the kerfs thereof register with one another. When the retainer is assembled the kerfs 104 receive the upper marginal portions of the legs 38 and 39 of the insert 11 and straddle rails 57 thereof. At the same time the kerfs 105 receive and straddle the flaps 52 and 53 of said insert. The notches 103 form a tongue 106 which is adapted to enter into the opening 30 in the handle 20 of the motor 12, the said handle being received in the notches 103.

The manner of using the invention is as follows: The container 10 is first erected and the flanges 23, forming the bottom thereof, folded inwardly and secured together by gluing, stitching, or otherwise. The insert 11 is next folded up and inserted into the container with the flanges 46 and 47 folded outwardly and with the flange 47 folded inwardly. At the same time, the flanges 49 and 50 are brought into coplanar relation with the flaps 52 and 53 extending outwardly therefrom and in juxtaposition as shown in Fig. 2. Crossbar 55 is next inserted in notches 54. The boot 15 is next assembled to take the form shown in Fig. 5 and is then placed upon the bottom 25 of the container 10 in the position shown in Fig. 1. The retainer 14 is then applied to the insert 11 in the manner shown in Figs. 1 and 2 with the legs 38 and 39 received in the kerfs 104 and the flaps 52 and 53 received in the kerf 105. The motor 12 is now inserted into the container from the open upper end of the same with the substructure 16 entering the interior of the boot 15 through the upper open end thereof. As the motor descends the propeller and other portions of the substructure are received in and protected by said boot. At the same time, the clamps 28 of the motor receive the crossbar 55 and the tongue 106 of the retainer 14 enters the opening 24 in the handle 20. The clamps 28 are then screwed tight on the crossbar. The shroud 13 is next assembled in the form shown in Fig. 2 with the flaps 75 overlying and secured together. The struts 79 now abut against the ends of the crossbar 55, the sections 76 of the longitudinal members 73 and 74 engage the side walls 21 and 22 of the container and the notches 71 receive the upper marginal portions of the legs 38 and 39. When the parts are so disposed, the retainer 14 is situated within the notches 69 of the shroud and held in position by the lower edges 70 of the flanges 75 of said shroud. When the shroud is in position, the housing 23 of the motor is disposed within the confines of the members of the shroud and protected thereby. The flanges 26 of the container 10 may now be folded over and secured together to form the top 24 of the container and which completely encloses the outboard motor.

The advantages of the invention are manifest. All of the parts of the motor are held from movement in all directions so that the motor is prevented from engaging the walls of the container and becoming injured. The crossbar is supported on wooden posts attached to the insert and is further held from upward movement at its ends by means of the struts on the shroud. The wooden rails attached to the insert prevent longitudinal movement of the crossbar and correspondingly the motor. The boot engaging the substructure of the motor protects the propeller and fin and prevents injury thereto. The retainer entering the opening in the handle prevents rotation of the motor and also swinging of the same in a fore and aft direction. In this manner the motor is held from movement by engagement at all of the extreme portions thereof. By making the posts 56 and the rails 57 and 58 fall short of the scores 27, 32, 33, 34 and 35, the material of the legs of the insert cushion the motor by collapsing the legs at such localities and prevents injury to the motor.

Changes in the specific form of the invention, as herein described, may be made within the scope of what is claimed without departing from the spirit of the invention.

Having described the invention, what is claimed as new and desired to be protected by Letters Patent is:

1. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert, U-shaped in form and having spaced legs and a connecting portion therebetween, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, the legs of said insert being spaced from the side walls of the container, flanges formed on the lower ends of said legs and engaging the side walls of the container to maintain the spacing between said legs and side walls at the lower ends of said legs, said legs having notches in the upper marginal portions thereof, posts attached to said legs and disposed between said notches and the bottom of the container, a crossbar to which the clamp of the motor may be clamped, said crossbar extending trans-

versely of said insert and being received in said notches, said crossbar resting on said posts, a shroud overlying said insert and having a transverse member extending across said insert and longitudinal members connected to said transverse member and engaging said side walls, said transverse member having notches therein receiving the upper marginal portions of said legs to maintain the spacing between said legs and side walls at the upper ends of said legs, said shroud engaging the top of the container and means engaging said crossbar from above and holding said crossbar in said notches.

2. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert, U-shaped in form and having spaced legs and a connecting portion therebetween, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, the legs of said insert being spaced from the side walls of the container, flanges formed on the lower ends of said legs and engaging the side walls of the container to maintain the spacing between said legs and side walls at the lower ends of said legs, said legs having notches in the upper marginal portions thereof, posts attached to said legs and disposed between said notches and the bottom of the container, a crossbar on which the clamp of the motor may be clamped, said crossbar extending transversely of said insert and being received in said notches, said crossbar resting on said posts, a shroud overlying said insert and having a transverse member extending across said insert and longitudinal members connected to said transverse member and engaging said side walls, said transverse member having notches therein receiving the upper marginal portions of said legs to maintain the spacing between said legs and side walls at the upper ends of said legs, said shroud engaging the top of the container and means engaging said crossbar from above and holding said crossbar in said notches, said crossbar engaging the longitudinal members of said shroud.

3. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert, U-shaped in form and having spaced legs and a connecting portion therebetween, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, the legs of said insert being spaced from the side walls of the container, flanges formed on the lower ends of said legs and engaging the side walls of the container to maintain the spacing between said legs and side walls at the lower ends of said legs, said legs having notches in the upper marginal portions thereof, posts attached to said legs and disposed between said notches and the bottom of the container, a crossbar to which the clamp of the motor may be clamped, said crossbar extending transversely of said insert and being received in said notches, said crossbar resting on said posts, a shroud overlying said insert and having a transverse member extending across said insert and longitudinal members connected to said transverse member and engaging said side walls, said transverse member having notches therein receiving the upper marginal portions of said legs to maintain the spacing between said legs and side walls at the upper ends of said legs, said shroud engaging the top of the container, means engaging said crossbar from above and holding said crossbar in said notches and struts attached to said longitudinal members and engageable with said crossbar and said top.

4. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert, U-shaped in form and having spaced legs and a connecting portion therebetween, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, the legs of said insert being spaced from the side walls of the container, flanges formed on the lower ends of said legs and engaging the side walls of the container to maintain the spacing between said legs and side walls at the lower ends of said legs, said legs having notches in the upper marginal portions thereof, posts attached to said legs and disposed between said notches and the bottom of the container, a crossbar to which the clamp of the motor may be clamped, said crossbar extending transversely of said insert and being received in said notches, said crossbar resting on said posts, a shroud overlying said insert and having a transverse member extending across said insert and longitudinal members connected to said transverse member and engaging said side walls, said crossbar having notches therein receiving the marginal portions of said insert, said transverse member having notches therein receiving the upper marginal portions of said legs to maintain the spacing between said legs and side walls at the upper ends of said legs, said shroud engaging the top of the container and means engaging said cross bar from above and holding said crossbar in said notches.

5. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert of corrugated board, U-shaped in form and having spaced legs and a connecting portion therebetween, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, the legs of said insert being spaced from the side walls of the container, said legs having notches in the upper marginal portions thereof, posts attached to said legs and disposed between said notches and the bottom of the container, said posts terminating at their lower ends short of said bottom, a crossbar to which the clamp of the motor may be clamped, said crossbar extending transversely of said insert and being received in said notches, said crossbar resting on said posts, rails attached to the upper marginal portions of said insert and disposed between said crossbar and the ends of the container and a shroud overlying said insert and engaging the top of the container, said shroud engaging the crossbar and holding it down on said posts in its notches in the legs of the insert.

6. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert of corrugated board, U-shaped in form and having spaced legs and a connecting portion therebetween, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, the legs of said insert being spaced from the side walls of the container, said legs having notches in the upper marginal portions thereof, posts attached to said legs and disposed between said notches and the bottom of the container, a cross bar to which the clamp of the motor may be clamped, said crossbar extending transversely of said insert and being received in said notches, said crossbar resting on said posts, rails attached to the upper marginal portions of said insert and disposed between said crossbar and the ends of the container, said rails terminating at their ends short of the end walls of the container and a shroud overlying said insert and engaging the top of the container, said shroud engaging the crossbar and holding it down on said posts in its notches in the legs of the insert.

7. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert, U-shaped in form and having spaced legs and a connecting portion therebetween, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, the legs of said insert being spaced from the side walls of the container, means coacting with the lower marginal portions

of said legs and with the container to maintain the spacing between said legs and side walls at the lower ends of said legs, said legs having notches in the upper marginal portions thereof, a crossbar to which the clamp of the motor may be clamped, said crossbar extending transversely of said insert and being received in said notches, said crossbar having notches therein receiving the upper marginal portions of said legs, the ends of said crossbar engaging the side walls of the container, a shroud overlying said insert and engaging the top of the container and the side walls thereof, said shroud having a transverse member extending across the insert between the crossbar and one end wall of the container, said transverse member being formed with notches therein receiving the upper marginal portions of said legs to maintain the spacing between said legs and side walls at the upper ends of said legs.

8. A package as defined in claim 7, having an elongated retainer extending across the insert between the crossbar and the other end wall of the container, the ends of said retainer engaging the side walls of the container and being formed with notches therein receiving the upper marginal portions of said legs to maintain the spacing between said legs and sidewalls at the upper ends of the legs, said retainer having means thereon engaging a portion of the motor horizontally offset from the clamp thereof.

9. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert having relatively spaced legs, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, said legs being spaced from the side walls of the container, means coacting with the lower marginal portions of said legs and with the container to maintain the spacing between said legs and side walls at the lower ends of said legs, said legs having notches in the upper marginal portions thereof, a crossbar to which the clamp of a motor may be clamped, said crossbar extending transversely of said insert and being received in said notches, said crossbar having notches therein receiving the upper marginal portions of said legs, the ends of said crossbar engaging the side walls of the container, an elongated retainer extending across the insert between the crossbar and one end wall of the container, the ends of said retainer engaging the side walls of the container and being formed with notches therein receiving the upper marginal portions of said legs to maintain the spacing between said legs and side walls at the upper ends of the legs, said retainer having means thereon engaging a portion of the motor horizontally offset from the clamp thereof.

10. A package as defined in claim 9 wherein the motor-engaging means on the retainer consists of a tongue thereon which extends through the handle of the motor.

11. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert having relatively spaced legs, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, said legs being spaced from the side walls of the container, means coacting with the lower marginal portions of said legs and with the container to maintain the spacing of said legs from each other and from the side walls at the lower ends of the legs, a crossbar to which the clamp of a motor may be clamped, said crossbar resting on and extending transversely across the legs of the insert, the ends of said crossbar engaging the sidewalls of the container, said crossbar being interlocked with the upper marginal portions of said legs to maintain the spacing of the legs from each other and from the side walls of the container, a shroud overlying said insert and engaging the upper portion of the container, said shroud holding down the said insert and the crossbar thereon and having a transverse member extending across the legs of the insert between the crossbar and one of the end walls of the container, said transverse member of the shroud being interlocked with the upper marginal portions of said legs to maintain the spacing of said legs from each other and from the side walls at the upper ends of said legs.

12. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert having relatively spaced legs, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, said legs being spaced from the side walls of the container, means coacting with the lower marginal portions of said legs and with the container to maintain the spacing of said legs from each other and from the side walls at the lower ends of the legs, a crossbar to which the clamp of a motor may be clamped, said crossbar resting on and extending transversely across the legs of the insert, the ends of said crossbar engaging the side walls of the container, said crossbar being interlocked with the upper marginal portions of said legs to maintain the spacing of the legs from each other and from the side walls at the upper ends of the legs, an elongated retainer extending across the insert between the crossbar and one end wall of the container, the ends of said retainer engaging the side walls of the container, said retainer resting on and being interlocked with the upper marginal portions of said legs to maintain the spacing of the legs from each other and from the side walls at the upper ends of the legs, said retainer having means thereon engaging a portion of the motor horizontally offset from the clamp thereof, and a shroud overlying said insert and engaging the upper portion of the container, said shroud engaging and holding down the said insert and the crossbar and retainer thereon.

13. In a package for carrying an outboard motor and including a container having a top, a bottom, side walls and end walls, the combination of an insert having relatively spaced legs, said insert being of a height less than the height of the container and resting on the bottom thereof and engaging the end walls of the container, said legs being spaced from the side walls of the container, means coacting with the lower marginal portions of the legs and with the container to maintain the spacing of said legs from each other and from the side walls at the lower ends of the legs, a crossbar to which the clamp of the motor may be clamped, said crossbar resting on and extending transversely across the legs of the insert, the ends of the crossbar engaging the side walls of the container, an elongated retainer resting on and extending across the insert between the crossbar and one end wall of the container, the ends of said retainer engaging the side walls of the container, a shroud overlying said insert and engaging the upper portion of the container, said shroud having a transverse member extending across the legs of the insert between the crossbar and the other end wall of the container, said transverse member of the shroud spanning the space between the side walls of the container, said shroud holding down the said insert and the crossbar and retainer thereon, said crossbar and retainer and transverse member of the shroud being interlocked with the upper marginal portions of the legs of the insert to maintain the spacing of said legs from each other and from the side walls at the upper ends of the legs, said retainer having means thereon engaging a portion of the motor horizontally offset from the clamp thereof.

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