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G. W. BOH

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PACKING WRAPPER

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2 Sheets-Sheet 2

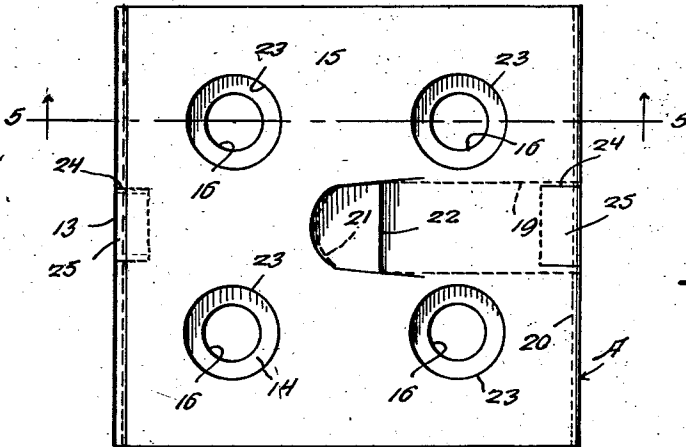


Fig. 4.

Fig. 5.

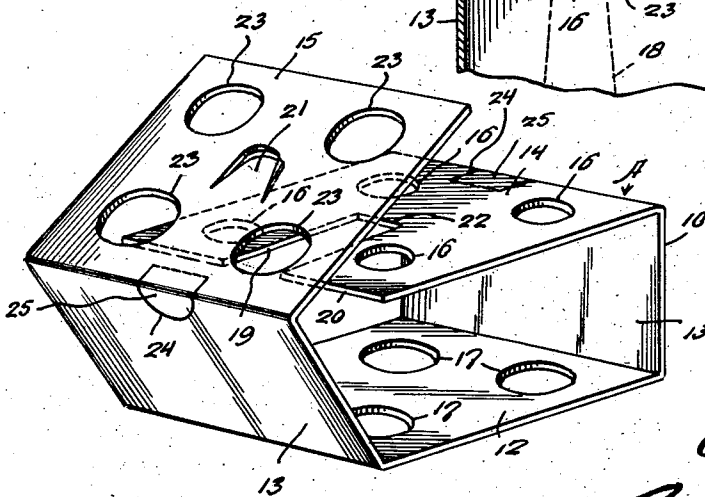
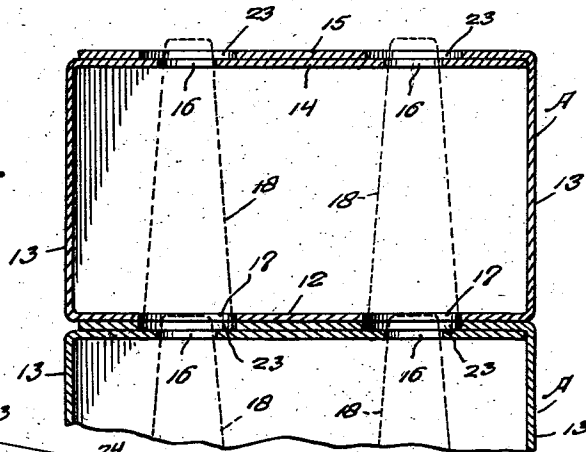


Fig. 6.

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PACKING WRAPPER

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1 Claim. (Cl. 206—46)

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This invention relates to packing wrappers for use in shipping and storing merchandise, such as yarn packages, which are designed to hold and protect the yarn packages from damage while in storage or in transit.

It is an object of the invention to provide a wrapper formed from fibreboard or similar flexible material adapted to be folded to form a rectangular structure for holding a group of yarn packages, so that each package will be held in spaced relation to the others of the group.

A further object of the invention resides in providing a wrapper for packing the yarn packages in a carton or other suitable packing case, the wrappers being stacked in vertical tiers within the packing case, with each wrapper having interlocking engagement with each other when in stacked relation whereby the wrappers are held against displacement during handling or shipping.

A still further object of the invention resides in providing a wrapper formed of fibreboard adapted to be folded about one or any selected number of yarn packages, the wrapper being provided with means to receive and hold the ends of the yarn carrying cones to prevent sidewise movement of each package of yarn to prevent contact of the yarn package with any part of the carton or the adjacent yarn packages.

A still further object of the invention resides in providing a wrapper for holding a group of yarn packages which may be easily stacked in a carton or shipping case and which will securely hold the yarn packages against contact with one another, each wrapper constituting a separate unit permitting easy removal of the merchandise from the carton.

Another object of the invention resides in providing a structure of the above mentioned character which is simple to assemble, efficient in use and inexpensive to manufacture.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claim hereunto appended. It is of course understood that changes, variations and modifications in the invention can be resorted to, as fall properly within the scope of the claim hereto annexed, without departing from the spirit of the invention.

In the accompanying drawings:

Figure 1 is a plan view of the sheet of mate-

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rial from which the wrapper is formed made in accordance with the invention.

Figure 2 is a vertical sectional view of a container, carton or the like showing several of the yarn package wrappers packed therein,

Figure 3 is an enlarged vertical sectional view taken approximately midway through one of the wrappers with the yarn carrying cones fitted therein,

Figure 4 is a top plan view of one of the wrappers showing the locking tongue for holding the wrapper in folded relation,

Figure 5 is a sectional view taken on line 5—5 of Figure 4 looking in the direction of the arrows, 15 and

Figure 6 is a perspective view of the wrapper in a partly folded condition.

Similar reference characters indicate corresponding parts throughout the several views in the 20 drawings.

Referring to the drawings in detail A designates generally each of the wrappers constituting the present invention, patterned and cut in any selected manner, as hereinafter set forth.

Each wrapper A comprises a normally flat sheet-like or board-like body 10, preferably made from fibreboard or any other fibrous material having the required stiffness and strength, yet being light in weight to give a certain inherent amount of flexibility, without tearing or breaking. This body 10 is an elongated or rectangular sheet having spaced parallel transversely disposed crease lines 11 created therein at proper distances apart to permit the body to be folded to build a wrapper having a bottom wall 12, end walls 13, and overlapped interlocking dual top flaps 14 and 15, respectively, the latter being the extremities of the sheet forming the body. The flaps 14 and 15 are approximately of the same size with respect to each other for full overlapping relationship to one another when in this position. The flap 14 underlies the flap 15, and each flap 14 has die cut therein at selected spaced intervals holes or openings 16, while the bottom wall 12 has die cut therein in centered vertical alignment with the holes 16, larger holes or openings 17, the latter, together with the holes 16 are gauged in sizes with respect to companion ends of cones 18 carrying yarn to be stored or shipped in a container, carton or the like generally denoted at B, of a determined given size for accommodating one or more of the wrappers herein before set forth. These wrappers each in its horizontal all-over dimensions is such as to snugly fit within the container, carton or the like B to

have the inside surfaces of its wall make close contact with such wrapper for the removable fitting therein.

The underlying top flap 14 of the wrapper is formed with an elongated slot 19, which opens through the outer free edge 20 of the flap, while the top flap 15 at the approximate center thereof has cut therein a latching tongue 21, which registers with the slot 19 to be received therein and interlocks with the closed innermost end 22 of the latter when the flaps 14 and 15 are in overlapped superposed relation to each other with the cones 18 nested therein with the ends of the cones interfitting the holes or openings 16 and 17, as has been before described.

The flap 15 has holes or openings 23 formed therein, which are of the same size as the holes or openings 17 and vertically register or align with the latter and the holes or openings 16, so that when a plurality of wrappers are stacked in the container, carton or the like B the cones 18 at their larger ends in the superposed wrapper will engage these holes or openings 23 of the underneath wrapper for the intercoupling of the wrappers in their stacked relationship within the container, carton or the like. In this manner the stacked wrappers will be held against displacement with relation to each other and thus eliminate distortion of the walls of the container, carton or the like when the wrappers are stacked therein.

The opposite end walls 13 of each wrapper adjacent the uppermost crease lines 11 next to the top flaps 14 and 15 are provided with finger engaging apertures 24, so that the wrapper when set-up for holding the cones 18 therein can be carried, inserted in and removed from the container B in a ready and easy manner, these apertures being normally closed by displaceable hinge-acting tabs 25 cut from the body 10 in the formation of the said apertures 24 therein.

The number of holes or openings 16, 17 and 23 will be varied according to the quantity of merchandise to be nested in each wrapper and are spaced to hold the merchandise in spaced relation to each other to prevent contact therebetween and with the walls of the carton in which they are packed.

The sides of the wrappers A when set up, which are at substantially right angles to the end walls 13 are entirely open, excepting when in the placement of two or more wrappers in the same plane

with each other, one of the closed ends 13 of one wrapper is located at the fully open side of the other wrapper next thereto, so that the closed end wall 13 acts as a closure for the open side, when the wrappers are placed within a container, carton or the like B.

The tongue 21 is of a width to frictionally bind against the opposite edges of the slot 19 for receiving the same for holding it fast, and thus prevents weaving and causes the larger holes or openings to fall into proper position directly over the smaller holes or openings with relation to the top flaps of each wrapper.

It will be seen that the yarn on the cones 18 when nested in the wrapper A will not touch any part thereof, and the same practically float within the wrapper, any side sway or shifting of the cones being impossible due to the ends of the cones being engaged with the openings 16 and 17.

Each body 10 of the wrapper A is of a one piece sheet of material and such wrapper is of a knock-down or collapsible form, it being normally flat and when set-up for holding merchandise will be stacked on one another in the shipping container, carton or the like, two, three or four high and the bottom or lowermost end of each cone in the wrapper will fit over the smaller end of the cone in the wrapper beneath and engage in the opening 23, thus interlocking the wrappers in stacked relation.

Having thus described my invention, I claim:

A package of yarn cones comprising a sheet of fibrous material folded to form a rectangular frame having top and bottom walls inclosing the cones, the ends of said sheet being secured in overlapping relation to form a double layer top wall, said top and bottom walls having aligned openings therein, the openings in the inner layer of the top wall being relatively small and the openings in the outer layer of the top wall and bottom wall being relatively large and substantially the same size, the lower end of each cone being snugly received in one of the bottom openings and projecting therethrough, the upper end of each cone being snugly received in the small opening of the top wall and the large opening in the outer layer of the top wall being adapted to snugly receive the projecting lower end of the cone of an adjacent package when the packages are disposed in stacked relation and operating to interlock said packages together.

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