

April 16, 1935.

E. S. GOMES

1,997,968

SHIPPING PACKAGE

Filed Aug. 1, 1934

FIG. 1.

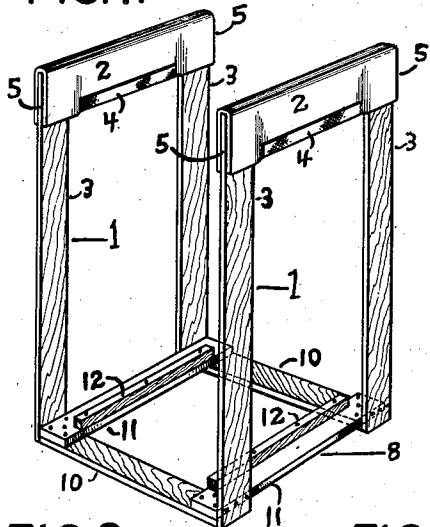


FIG. 2.

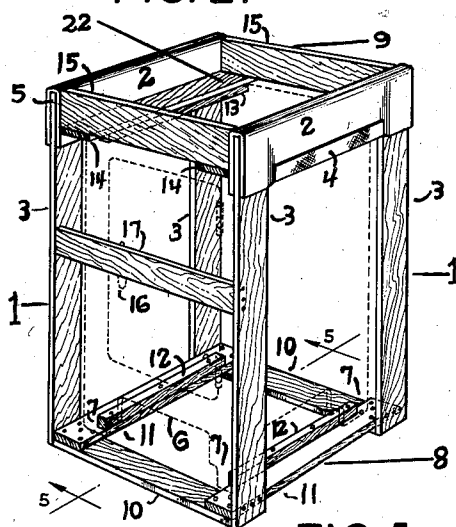


FIG. 3.

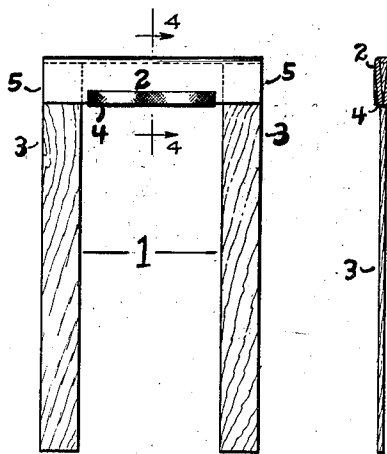


FIG. 4.

FIG. 5.

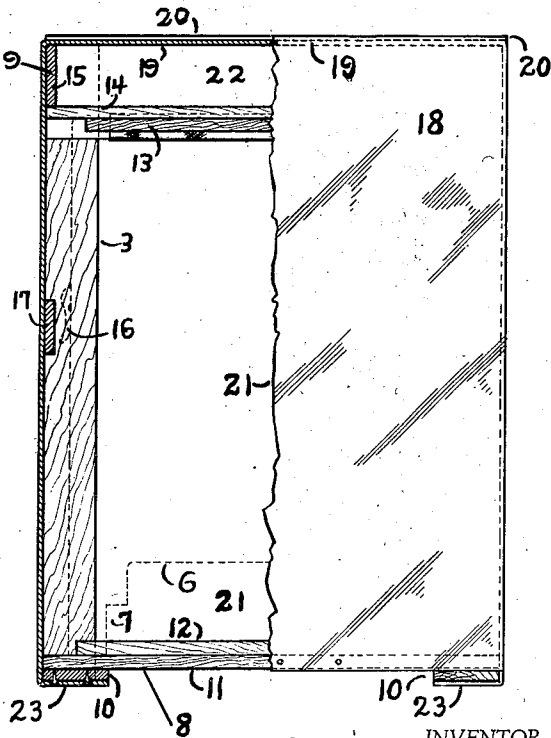


FIG. 6.

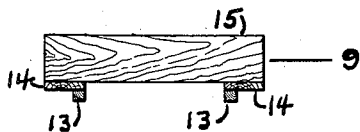
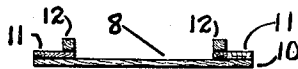


FIG. 7.



WITNESSES:

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SHIPPING PACKAGE

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7 Claims. (Cl. 229-14)

This invention relates to a fibre board receptacle supported by an inner framework wherein a refrigerator cabinet or a similar cabinet or other goods of a large bulky nature may be packed and shipped.

The principal object of this invention is to provide improved inner supports in a fibre board shipping package which are simple in construction, efficient, economical to manufacture and easily set up within a fibre board receptacle.

Another object of my invention is to provide a fibre board receptacle with a top, side walls and an open end and with short flaps extending from oppositely disposed side walls of said receptacle at the open end of said receptacle in combination with an inner framework, said receptacle being so arranged as to slip over said framework and the article packed with said flaps extending beyond the body of the framework and being adapted to bend under and attach to the bottom of said framework at the open end of said receptacle and thus save a large amount of flaps such as are commonly used in ordinary fibre board containers.

Another object of my invention is to provide a fibre board receptacle with improved inner supports which will allow the article packed to ride free of the side walls of the receptacle thereby providing a free air space between the article packed and the side walls of the receptacle thus protecting the finish of the article packed in a most desirable manner.

Another object of my invention is to provide a fibre board retaining, supporting, spacing, and cushioning member at the ends of substantially rigid upright corner supports whereby said upright supports are retained in corner pockets and supported in spaced-apart relation with one another, and the sharp or rough edges at the ends of said upright supports are covered and cushioned with fibre-board so that said sharp or rough edges will not rub and/or wear through the ends or walls of the outer receptacle.

Another object of my invention is to provide substantially rigid upright corner supports within a fibre board receptacle so that when said receptacle is loaded upon the rear end of trucks and tied in with ropes or the like said supports will reinforce the corners of said receptacle and not allow said ropes and the like to cut through said receptacle and rub or mar the article packed therein.

My invention consists in the construction, combination, location and arrangement of parts all as herein set forth and claimed.

In the drawing:

Fig. 1 is a perspective view showing one method of assembling my improved inner supports in connection with a bottom cradle.

Fig. 2 is a perspective view showing a cabinet by dotted lines and showing one method of assembling my improved inner supports in connection with a top brace and a bottom cradle.

Fig. 3 is a face view of one of my improved inner supports.

Fig. 4 is a sectional view through 4-4 of Fig. 3.

Fig. 5 is a face view of one side of the fibre board receptacle with a portion of the receptacle cut away to show a part of a section through 5-5 of Fig. 2.

Fig. 6 is a face view showing one style of top brace and showing the top brace in elevation.

Fig. 7 is a face view showing one style of bottom cradle and showing the bottom cradle in elevation.

The structure hereinafter described is particularly adapted to be used as a shipping package for refrigerator cabinets with or without refrigerating units installed or any other similar cabinets or bulky shipments of goods.

In the embodiment of my invention as illustrated and which shows a preferred construction I provide a pair of sidewall supports 1-1 which are made of any suitable material as for example fibre board top members 2-2 and substantially rigid upright wooden corner members 3-3-3-3.

Referring now in detail to one of my improved inner supports 1, top member 2 is formed over the ends of corner members 3-3 in any suitable manner as for example by bending a single piece of material to form sides adapted to lie substantially parallel with each other, as clearly illustrated in Figs. 1 and 2. The folded sides of top members 2 are preferably further connected with one another in any suitable manner as for example with gummed tape 4, leaving the ends of top member 2 open to form pockets 5-5 as best illustrated in Fig. 1. One end of each corner member 3-3 is then inserted into said pockets 5-5 and preferably held securely in said pocket in any suitable manner as for example with silicate of soda, or glue, or staples. Under ordinary circumstances no other reinforcement need be used to hold corner members 3-3 in spaced-apart relation, but when additional reinforcing means are desired it will be obvious that an additional support may be supplied by adding a piece of suitable material, as for example a thin strip of wood, which may be placed inside of the fold in

top member 2 and extend from the inside edge of one corner member 3 to the inside edge of the other corner member 3.

In the present showing I have illustrated a refrigerator cabinet 6 with legs 7-7-7-7 as an article to be shipped, mounted upon a bottom cradle 8 and with a top brace 9 mounted upon the top of the cabinet 6. It is well known and is to be clearly understood that various types of top braces and bottom cradles have been commonly used in packing refrigerator cabinets and the like in wooden containers and that cabinets are sometimes packed set on their legs upon the bottom cradle when the legs are strong enough, and cabinets are sometimes mounted so the legs will be suspended when the legs are not strong enough to carry the load, and some cabinets are made without legs and are loaded upon their base and they may be loaded with their base suspended. In my improved shipping package any of these methods of mounting the cabinet may be adopted. It is my purpose here to show a preferred method of applying my improved shipping package and it will be obvious other methods may be adopted without changing the spirit, or purpose, or intention of my invention.

In practice any kind of a suitable bottom cradle may be used as for example bottom cradle 8 with bottom pieces 10-10 fastened to connecting pieces 11-11 in any suitable manner as for example with nails, and with leg stays 12-12 fastened to connecting pieces 11-11 in any suitable manner as for example with nails. The cabinet 6 may then be set upon the bottom cradle 8 with the leg stays 12-12 inside of the corners of the legs 7-7-7-7, my improved inner supports 1-1 may then be connected with bottom cradle 8 in any suitable manner as for example with nails as best illustrated in Figs. 1 and 2. Any kind of a suitable top brace may be used as for example top brace 9, with cabinet stays 13-13 attached to connecting pieces 14-14 in any suitable manner as for example with nails and with connecting pieces 14-14 attached to top pieces 15-15 in any suitable manner as for example with nails. Cabinet stays 13-13 may drop down into the open top of the cabinet 6, as best illustrated in Fig. 5, to stay the top of said cabinet. Certain styles of cabinets may thus be held in spaced-apart relation with my improved supporting units and with the side walls of the receptacle.

To protect the door handle 16, cross member 17 may be attached to supports 1-1 in any suitable manner as for example with nails as best shown in Fig. 2, fibre board receptacle 18 is then slipped over my improved inner supports 1-1 and the top of said receptacle is closed with oppositely disposed closing flaps 19-19 and oppositely disposed closing flaps 20-20 in a manner well known.

The package then may be raised up, or turned over, or turned upside down in any suitable manner and the oppositely disposed bottom flaps 23-23 may be bent over the bottom pieces 10-10 of the bottom cradle 8 and securely fastened thereto in any suitable manner as for example with nails as best shown in Fig. 5. The bottom of the side walls 21-21 of receptacle 18 may then be secured to bottom cradle 8 in any suitable manner as for example with nails through side walls 21-21 into connecting pieces 11-11 of bottom cradle 8 as best shown in Fig. 5.

For packages weighing over a certain weight the railroads require that additional wooden skids

be attached to the bottom of the package. It will be obvious that wooden skids can be attached to my improved package when necessary to meet railroad requirements.

Various methods of packing refrigerator cabinets have been in common use, sometimes the top of the cabinet is shipped in a separate package, sometimes said top is built integral with the cabinet and sometimes said top is packed in a separate compartment in the same package with the cabinet. In the present showing a compartment 22 is provided wherein a cabinet top may be packed and shipped.

Some of the advantages of my improved construction are:

1—The package is light in weight.

2—The article packed can be easily assembled in or removed from the interior framework of the receptacle and the receptacle can be easily arranged over or removed from the interior framework.

3—The package is economical as only a few parts are required for the complete package and very little labor is required to set up the complete package.

The fibre board receptacle is substantially supported and it can be tied on trucks with ropes or strapped with steel strap in groups to form what is commonly known as a unit load when loaded in railroad cars or large trucks or the like.

While I have shown and described one particular embodiment of my invention it will be understood that various changes and modifications can be made without departing from the scope or spirit thereof, as for example additional upright rigid members may be added to each said supporting unit, or an additional unit or units may be added to another side or sides of said framework, if desired, to take care of very heavy shipments and/or the fibre board receptacle may be made with bottom closing flaps similar to the top closing flaps.

What I claim as new and desire to secure by Letters Patent is:

1. A shipping package comprising a fibre board receptacle composed of a top, side walls and an open end, oppositely disposed flaps extending from certain of said walls at the open end of said receptacle, a bottom cradle with stays thereon, a top brace with stays thereon and a pair of oppositely disposed supporting units adjacent certain of said receptacle walls, each said unit being composed of a pair of substantially rigid upright corner members and a top member, said corner members being adapted to be connected with said bottom cradle and extend substantially from the bottom to the top of said receptacle, said top member being adapted to extend substantially across said side wall, said stays on said bottom cradle and said stays on said top brace being adapted to maintain the article packed in spaced-apart relation with certain said receptacle walls, said top brace being adapted to lie between said supporting units in the top of said receptacle over the article packed, said flaps being adapted to fold under said bottom cradle and be attached thereto.

2. In a shipping package of the class described a pair of oppositely disposed supporting units, each unit being composed of a pair of substantially rigid upright corner members and a top member, said top member being adapted to extend substantially across the top of a certain wall of said package and to fold back on itself to form a slot, said corner members being adapted to extend sub-

stantially from the bottom to the top of said package and each having an end portion adapted to fit into one end of said slot and connect with said top member.

5 3. In a shipping package of the class described a pair of oppositely disposed supporting units, each unit being composed of a pair of substantially rigid upright corner members and a connecting and cushioning means for said corner
10 members, said corner members being adapted to extend substantially from the bottom to the top of the corners of a certain wall in said package, said connecting and cushioning means being adapted to extend substantially across the top
15 of said package wall, each end of said connecting and cushioning means being adapted to connect with the top end of one of said corner members, and cover and cushion the top of said corner member.

20 4. In a shipping package of the class described a pair of oppositely disposed supporting units, each unit being composed of a pair of substantially rigid upright corner members and a top member, said top member being adapted to extend
25 substantially across the top of a certain wall of said package and to fold back on itself, the center portion of the sides of said top member being fastened to one another to form a retaining pocket at each end of said top member, said corner members being adapted to extend
30 substantially from the bottom to the top of said package and each of said corner members having an end portion adapted to fit into one of said pockets and connect with said top
35 member.

5 5. In a shipping package of the class described a pair of oppositely disposed supporting units, a bottom cradle and a top brace, each of said units being composed of a pair of substantially
40 rigid upright corner members and a top member, said corner members being adapted to be connected with said bottom cradle and lie substantially parallel with and against the package wall, said top brace being adapted to connect the top

ends of said corner members at the top of said package, whereby the side walls and corners of said package and the top and bottom of said package are substantially reinforced.

6. A shipping package comprising a fibre board
5 receptacle, an interior framework and a refrigerator cabinet, said receptacle being composed of a top, side walls and an open bottom, oppositely disposed and relatively short flaps extending from certain walls at said bottom of said
10 receptacle, said framework being composed of a bottom, a top and substantially rigid upright supports, said supports being adapted to lie substantially parallel with and adjacent to two oppositely disposed walls of said receptacle and to
15 extend substantially from the bottom to the top of said receptacle, said framework being arranged to brace and support said refrigerator cabinet, said flaps being adapted to fold under and attach to the bottom of said framework, whereby
20 said receptacle, framework and refrigerator cabinet are adapted to form a shipping package wherein said receptacle is strongly reinforced by said framework and said refrigerator cabinet is securely held free of the side walls of said receptacle.
25

7. A shipping package comprising a fibre board
receptacle, an interior framework and a refrigerator cabinet, said receptacle being composed of a top, side walls and an open bottom, said framework being composed of a bottom cradle with
30 stays thereon, a top brace with stays thereon and certain side wall supports connected at the bottom with said cradle and at the top with said brace, said framework being arranged to support and brace said refrigerator cabinet, said receptacle being of such dimensions as to fit over
35 said framework with certain sidewalls of the receptacle attached to said framework at the open end of said receptacle whereby said receptacle, framework and refrigerator cabinet are adapted to form a shipping package.
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