Dec. 6, 1927. 1,651,965

F. S. OPPENHEIM

CONTAINER

Filed Dec. 17, 1924

Fig. 1

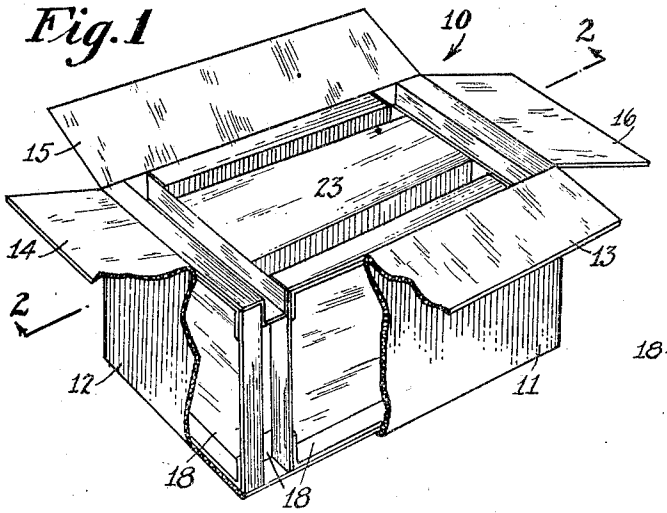


Fig. 2

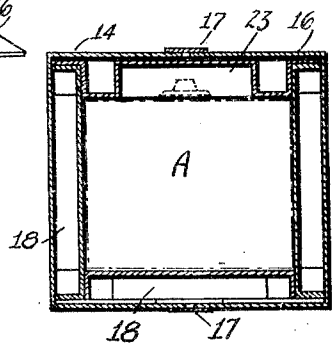


Fig. 5

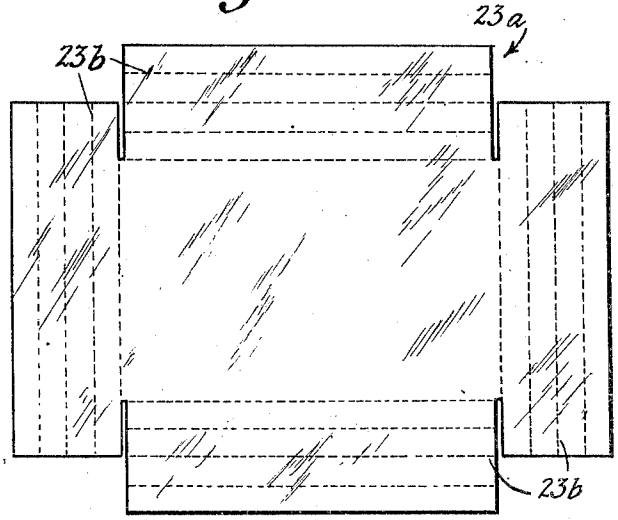


Fig. 3

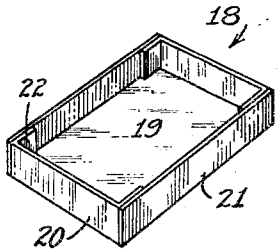
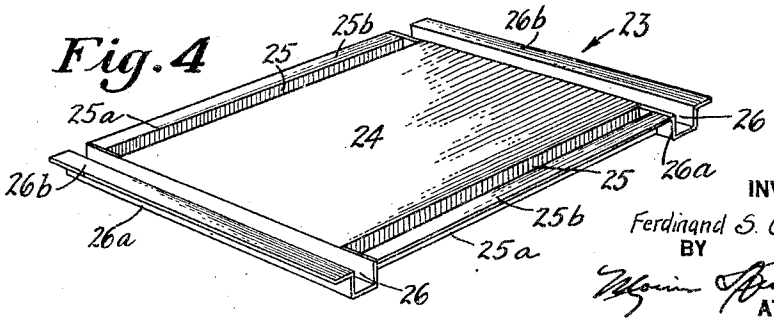


Fig. 4



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UNITED STATES PATENT OFFICE.

FERDINAND S. OPPENHEIM, OF NEW YORK, N. Y.

CONTAINER.

Application filed December 17, 1924. Serial No. 756,460.

This invention relates to packing and shipping boxes and cases. More particularly, it is directed to corrugated paper board containers or cartons of improved construction for shipping fragile articles or delicate apparatus such as radio sets, meters, typewriters, and the like.

An object of the invention is to provide a container or carton of the character described having substantial braced inner walls or partitions which effectively protect and cushion the enclosed contents from sudden blows and contacts so as to prevent injury and damage due to careless and rough handling during transportation, and which includes a cushioning member of improved construction for receiving projecting parts of the enclosed contents, said member being arranged to protect and accommodate such projecting parts.

Another object of the invention is to provide an improved cushioning member for the container or carton of the character described which is simple in construction, cheap to manufacture, and efficient and practical to a high degree for the purposes described.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

Certain features herein shown and described are shown, described, and claimed in my Patent #1,522,902 granted January 13, 1925, and accordingly are not claimed herein.

With the above exception, the invention accordingly consists in the features of construction, combinations of elements and arrangement of parts which will be exemplified in the construction hereinafter described and of which the scope of application will be indicated in the following claims.

In the accompanying drawing, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is a perspective view showing a packing and shipping box embodying the invention, parts of the box being broken away to show the interior;

Fig. 2 is a cross-sectional view taken on line 2—2 in Fig. 1 showing the box closed and sealed with a radio set (shown in dot and dash lines) packed therein;

Fig. 3 is a perspective view of a side cushioning member or partition liner;

Fig. 4 is a perspective view of the improved top cushioning member embodying the invention; and

Fig. 5 is a plan view of a blank from which the top cushioning member shown in Fig. 4 is formed.

Referring in detail to the drawing, 10 denotes an outer casing or shell of a packing and shipping box embodying the invention which may have any desired shape or design and may be made of fibre board, card board, or the like material but is preferably constructed of corrugated paper board, the cellular structure of which has been found to add greatly to the cushioning effect for the purposes described.

As seen in Fig. 1, the outer casing 10 is of collapsible construction and comprises elongated side walls 11, end walls 12 and cover flaps 13, 14, 15, and 16, all preferably formed from a single sheet of material, cut, creased and folded to form the rectangular shaped shell 10, the cover flaps being adapted to fold inwardly to form the top and bottom walls for closing the casing. When the flaps are folded into their closed position, they may be held in place by any suitable means as for example a strip of adhesive tape 17.

Partition liners or cushioning members 18 are provided which are arranged against the side walls, end walls and the bottom of the casing 10. Each of these members 18 may be of any suitable and substantially identical construction and as seen most clearly from Fig. 3, is preferably formed of a single sheet of corrugated paper board, cut, creased and folded to form a rectangular shaped body portion 19, end walls 20, and side walls 21, said end walls 20 having flap extensions 22 which are bent to extend within and adjacent the side walls 21 and held in position by suitable fastening means. The flap extensions 22 or other fastenings for the side and end walls to retain them in their relative positions may be omitted if desired, since it is apparent that when the members 18 are assembled within the casing 10, the structure is self-retaining. (See Fig. 2.)

It will be understood that the shipping box is of suitable dimensions to enable packing the article or articles therein so as to substantially fill the space marked A in Fig. 2, and that the partition liners 18 are of proper design to completely cover the interior sides and the bottom of the casing 10.

Where the contents occupying space A (see Fig. 2) comprise a radio set having the usual series of dials, levers and other like control means which project beyond its en-

closing cabinet, a novel form of top cushioning member 23 may be provided which accommodates the said projecting parts and acts to support and space the set from the top cover of the casing.

As seen from Figs. 1 and 4, the top cushioning member 23 is preferably constructed of a single sheet of corrugated paper board, cut to the blank shape 23^a shown in Fig. 5 and provided with crease lines 23^b so that said blank 23^a may be formed into the folded structure shown in Fig. 4. Member 23 is seen to have a central rectangular recessed portion 24 extend up from one side of said member 23 and recessed channelled marginal portions 25 and 26 extending along the sides and ends respectively of the opposite side of said member 23. The top cushioning member 23 when inserted in the casing 10 as shown in Figs. 1 and 2, has its central portion positioned to accommodate projecting parts of the article to be packed therein and the upstanding side walls 25^a and 26^a of the portions 25 and 26 respectively serve to cushion and space the contents from the top of the casing. Each portion 25 and 26 may have outwardly extending edge flaps 25^b and 26^b respectively which are adapted to support the cushioning member on the inner wall structure as shown in Fig. 2.

In the practice of the invention, the side and end partition liners 18 are first placed in position in casing 10 and are held in their respective places by means of the bottom liner 18 as is clearly shown in Figs. 1 and 2. Having arranged these liners in position with their body portions spaced inwardly from the various walls of the casing, the radio set or other article to be packed is then lowered into place, the side wall of the set abutting against the walls of the liner 18 and being spaced thereby a substantial distance from the walls of the casing 10. With these parts in position, the cushioning member 23 is inserted in the top opening of the casing with the central recessed portion 24 thereof arranged to enclose the various projecting parts, the member 23 being dimensioned to the proper height to fill the space between the top of the set and the top of the casing. The cover flaps are then folded into position and the casing sealed in any suitable manner as by means of a strip of adhesive tape 17.

In utilizing the structural form of top cushioning member 23 described above, the side and end liners 18 are preferably arranged to extend substantially to the top of the casing and the flaps 25^b and 26^b of said member 23 may then be supported on said liners 18. The channelled marginal portions 25 and 26 are thus arranged to fit into the top opening of the casing and to abut the contents to cushion and space the latter from the top as is clearly shown in Fig. 2.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawing is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. A packing and shipping box comprising an outer casing having a non-intersecting partition liner arranged therein for each of the side, bottom, and top walls of said casing, said liners extending substantially to the top of the casing and forming a supporting structure adapted to protect and cushion the enclosed contents against damage during transportation, the top liner having recessed portions arranged to fit into the top opening of the casing between the side and end liners to abut the contents and forming a space between the adjacent side and end liners.

2. A packing and shipping box comprising an outer casing having a non-intersecting partition liner arranged therein for each of the side, bottom, and top walls of said casing, said liners extending substantially to the top of the casing and forming a supporting structure adapted to protect and cushion the enclosed contents against damage during transportation, the top liner having recessed portions arranged to fit into the top opening of the casing between the side and end liners to abut the contents and forming a space between the adjacent side and end liners, and outwardly extending edge flaps on said top liner adapted to support the latter on the top sides of the side and end liners.

In testimony whereof I affix my signature.

FERDINAND S. OPPENHEIM.