

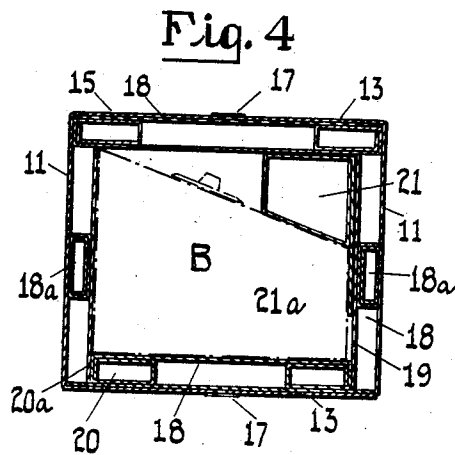
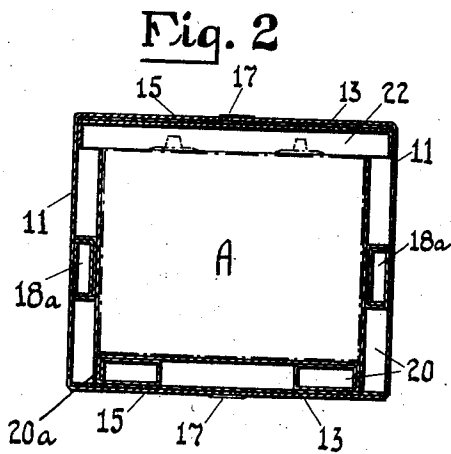
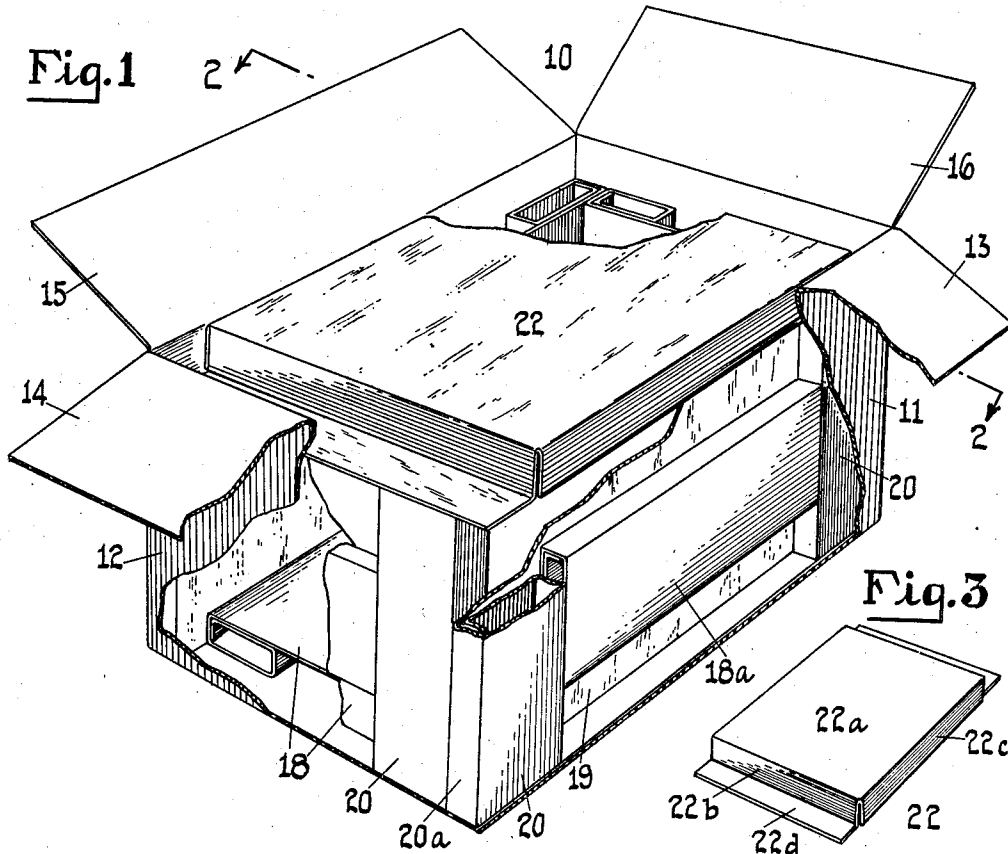
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CONTAINER

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CONTAINER.

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This invention relates to improvements in packing and shipping boxes or cases and is particularly directed to a novel form of double walled container or carton constructed preferably of corrugated paper board, or the like material for use in packing and shipping delicate and comparatively heavy apparatus, such as radio sets, meters, typewriters and the like.

10 An object of the invention is to provide an improved container of the character described constructed to effectively protect and cushion the contents from sudden blows and contacts so as to prevent injury and damage to the contents due to careless and rough handling during transportation, said construction including improved reinforced bracing means positioned between the double walled structure of the container.

20 A further object of the invention is to provide a container of the character described with simple and effective means for securely receiving and packing a symmetrically shaped article.

25 Another object of the invention is to provide a container of the character described which is simple in construction, quick and easy to assemble, inexpensive to manufacture and efficient to a high degree for the purposes described.

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

35 Certain features herein shown and described are shown, described and claimed in my Patent Nos. 1,585,684 and 1,522,902 issued May 25th, 1926 and January 13th, 1925, respectively, and accordingly are not claimed herein.

40 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.

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 construction;

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 the top cushioning member; and

Fig. 4 is a cross-sectional view of a box showing an adaptation of the invention for packing a symmetrical article therein.

Referring in detail to the drawing, 10 denotes an outer casing of a packing and shipping box or container 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 protection for the purposes described.

As seen in Fig. 1, the outer casing or shell 10 is of the usual collapsible construction to permit economical "knock down" shipment and comprises elongated side walls 11, end walls 12 and cover flaps 13, 14, 15 and 16, all preferably formed of 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 to their closed position, they may be held by any suitable means as for example by a strip of adhesive tape 17.

Partition liners or cushioning members 18 which are arranged against the side walls, end walls and the bottom, may be substantially similar in construction, and as seen most clearly in Fig. 1, each is preferably formed of a single sheet of corrugated paper board, cut, creased and folded to form a rectangular shaped body portion 19 having the opposite edge portion thereof infolded to form tubular sections 20. Side walls 20 of section 20 serve to support and to space the body portion 19 from the adjacent wall or bottom, the section 20 preferably being made relatively wider to extend a substantial distance inwardly of the edge of the member 18 as shown in Fig. 1.

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 in-

terior sides and bottom of the casing 10 to the height of the contents, said liners 18 and contents preferably extending a substantial distance below the top of the casing for the purposes which will hereinafter appear.

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 enclosing cabinet, a novel form of top cushioning member 22 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 3, the top cushioning member 22 is preferably constructed of a single sheet of corrugated paper board, cut, creased and folded to have a middle rectangular shaped recessed portion 22^a, the upstanding walls 22^b and 22^c thereof and edge flaps 22^d of said member 22 serving to support and space the contents from the top of the casing.

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 22 is inserted in the top opening of the casing with the central recessed portion 22^a thereof arranged to enclose the various projecting parts, the member 22 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.

Where the article to be packed is relatively heavy, or if the shipping box is liable to be subjected to unusually rough handling during transportation, one or more of the liners 18 may be provided with reinforcing means.

As shown in Fig. 1, said reinforcing means may preferably be made of a single piece of material, shaped into an infolded structure to form a tubular member 18^a, which is positioned to reinforce the mid section of portion 18 and is wedged between the sections 20. If the box is of relatively large dimensions, a plurality of spaced members 18^a may be provided in place of the single one shown. In adapting the invention for packing a radio set B of a symmetrical cross-section in a rectangularly shaped box, an infolded leveling member 21 forming a tubular struc-

ture is provided as a filler which is fitted into the space between the narrower portion of the set B and the top cushioning member 18 as shown in Fig. 4. Member 21 may have a depending portion 21^a which is adapted to be inserted between the adjacent side of set B and the abutting side wall formed by the body portion 19 of liner 18.

In packing sets like that shown in Fig. 4 or like articles having no parts that project beyond the space provided for the contents, the top cushioning member may be constructed like liners 18 (see Fig. 4) in place of member 22 as shown in Fig. 1.

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 therein set forth or shown in the accompanying drawings 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, and a plurality of removable spacing partitions arranged to abut one another and to form the inner walls of the box, at least one of said partitions having a body portion and a pair of parallelly extending infolded tubular sections at the opposite ends of said portion, said tubular sections being formed by folding successively edge portions of said partition to extend down, inward, up and along the rear surface of said body portion, the side walls of said sections serving to support and space said body portion from the adjacent walls of the outer casing.

2. A packing and shipping box comprising an outer casing having side walls, end walls and a bottom, a plurality of removable partitions spaced from said side and end walls and bottom and arranged to abut one another to form the inner walls of the box, the bottom partition normally retaining the side and end partitions in position, each partition having parallelly extending edge portions folded to extend down, inward, up and infolded from the normal rear surface of the partition to form tubular sections, the side walls of said sections serving to support and space the partition from the adjacent walls of the outer casing.

3. A packing and shipping box comprising an outer casing, and a plurality of removable spacing partitions arranged to abut one another and to form the inner walls of the box, at least one of said partitions hav-

ing opposite edge portions thereof infolded to form tubular sections, the side walls of said sections serving to support and space the partitions from the adjacent wall of the outer casing, and an infolded tubular member positioned and wedged between the said sections for reinforcing the mid portion of said partition.

4. A packing and shipping box comprising an outer casing having side walls, end walls and a bottom, a plurality of removable partitions spaced from said side and end walls and bottom and arranged to abut one another to form the inner walls of the box, the bottom partition normally retaining the side and end partitions in position, each partition having opposite edge portions thereof infolded to form tubular sections, the said walls of said sections serving to support and space the partitions for the adjacent wall

of the outer casing, and at least one infolded tubular member positioned and wedged between the said sections of the partition, for reinforcing the mid portion of the partition.

5. In a packing and shipping box, a partition liner made of a single piece of corrugated paper board creased and folded to form a rectangular shaped body portion having the opposite edge portions thereof infolded to form tubular sections, the side walls of said section adapted to support and space the liner from an interior wall of the box, and a reinforcing means for said partition made of a single piece of corrugated paper board creased and infolded to form a tubular structure, said means being wedged in position across the mid portion of the partition between the said sections thereof.

In testimony whereof I affix my signature.
FERDINAND S. OPPENHEIM.