May 30, 1950 B. M. WILLIAMS 2,510,004

TELESCOPIC SHIPPING CARTON

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FIG. 1.

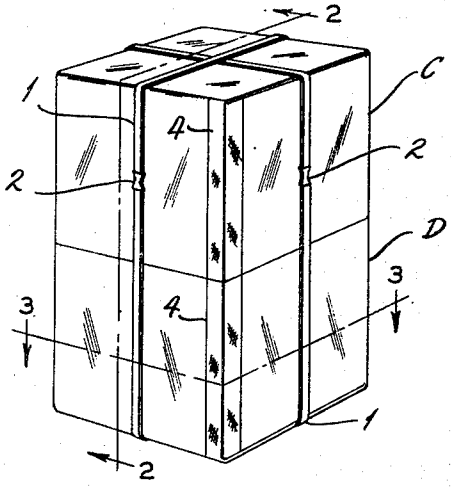


FIG. 3.

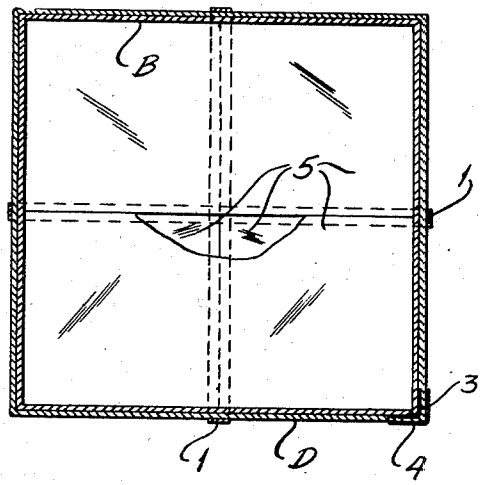


FIG. 2.

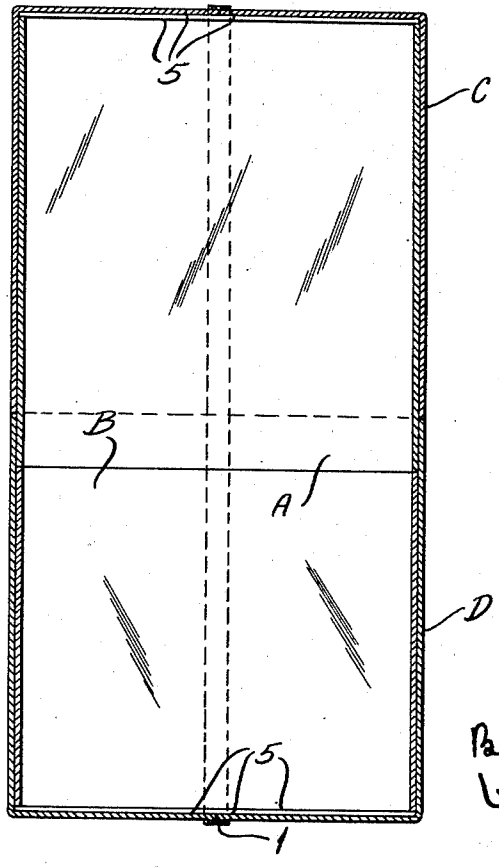
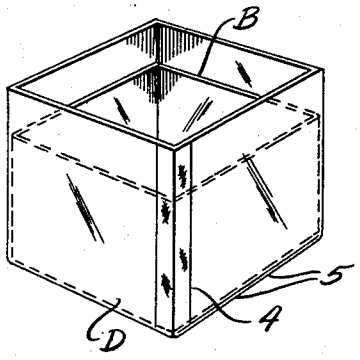


FIG. 5.



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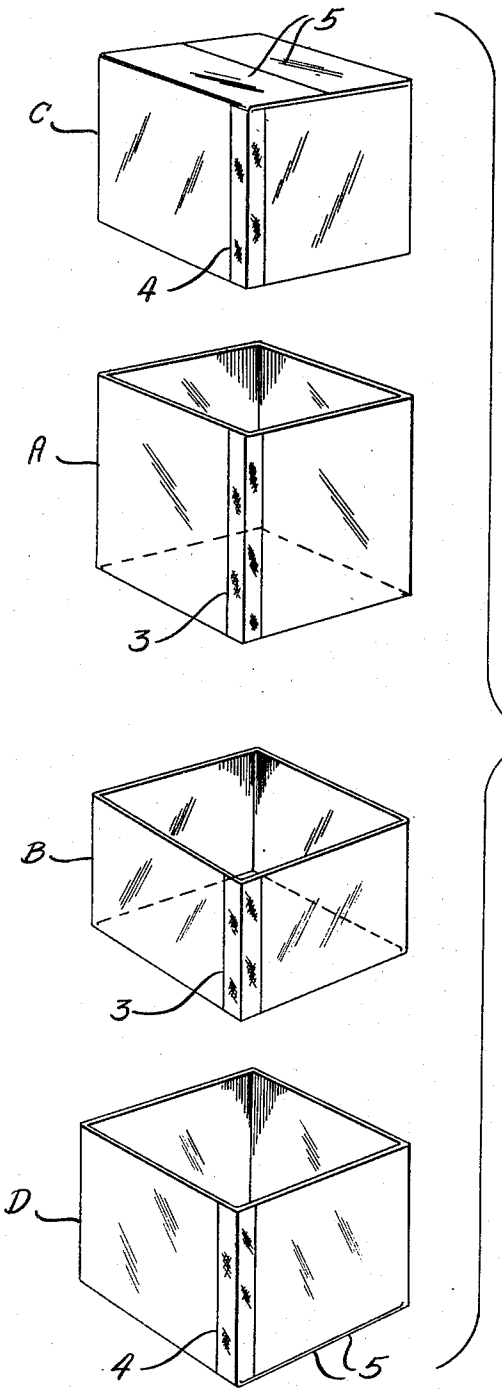
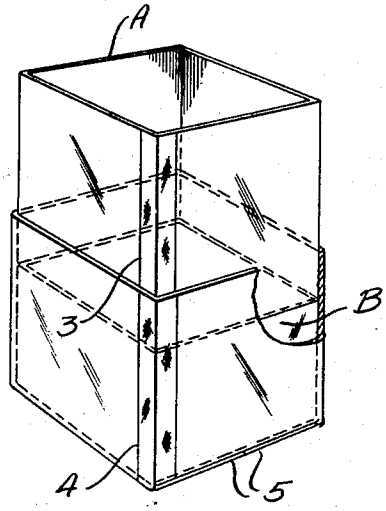


FIG.4.

FIG.6.



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UNITED STATES PATENT OFFICE

2,510,004

TELESCOPIC SHIPPING CARTON

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Application November 1, 1947, Serial No. 783,604

1 Claim. (Cl. 229—14)

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This invention relates to heavy duty shipping cartons of the kind comprising a tall, open-ended liner and duplicate upper and lower slip covers telescoped over the open ends of said liner with their opposing ends in abutting relation. A serious practical objection to the above type of carton is that the height of the liner prevents the packer from reaching through the open upper end of said liner to the lower portion thereof. The principal object of the present invention is to provide a simple and inexpensive carton of the above type that will permit easy access to be had to the lower portion of the liner to facilitate packing thereof. The present invention consists in dividing the tubular open-ended liner into separate upper and lower sections, whereby the carton may be packed by first filling the lower liner section and then filling the upper liner section after it has been placed on the filled lower liner section. The invention also consists in terminating the upper edge of the lower liner section short of the upper edge of the lower cover; whereby the upper portion of said lower cover is adapted to snugly receive and afford lateral support for the lower part of said upper liner section and said upper edge of said lower liner section is adapted to afford vertical support for the lower edge of said upper liner section below said upper edge of said lower cover. The invention also consists in the telescopic shipping carton and in the parts and combinations and arrangements of parts hereinafter described and claimed.

In the accompanying drawings, which form part of this specification and wherein like symbols refer to like parts wherever they occur,

Fig. 1 is a perspective view of a shipping carton embodying my invention,

Fig. 2 is a vertical sectional view on the line 2—2 in Fig. 1,

Fig. 3 is a horizontal sectional view on the line 3—3 in Fig. 1,

Fig. 4 is an exploded view in perspective, showing all of the parts of the carton,

Fig. 5 is a perspective view of the lower cover with the lower liner section positioned therein; and

Fig. 6 is a perspective view similar to Fig. 5, showing the upper liner section in position.

In the accompanying drawings, my invention is shown embodied in a relatively tall heavy duty shipping container comprising upper and lower open-ended tubular liner sections A and B, of rectangular cross-section, respectively, and slip-type upper and lower cover members C and D, respectively, of corresponding cross-sectional

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shape, all made of corrugated board, fiberboard or other bendable material. The two covers C and D preferably are duplicates; and the two liner sections A and B are of the same cross-sectional size and shape and have a snug fit in said cover sections. The two liner sections, however, differ in height, the upper section being longer than the upper cover C and the lower section B being shorter than the lower cover D.

The short lower liner section B telescopes into the lower cover D through the open upper end thereof and extends from the bottom of said lower cover and terminates short of the open upper end thereof. The upper liner section A has its lower portion telescoped in the upper end portion of the lower cover D and seats on the upper edge of the lower liner section B therein. The upper liner section B extends above the lower cover D and the upper cover C telescopes over said upper liner section and seats on the upper end thereof and on the upper end of the lower cover D. The carton may be bound with cross metal securing bands or straps 1 that extend around the carton along the top, bottom and sides thereof and are locked in contracted position by means of suitable coupling members 2.

Each of the liner sections is made from a blank (not shown) bent to form the four side walls of the liner section, the ends of said blank meeting at one corner of the liner section and being permanently connected preferably by means of an adhesive strip 3. Each of the upper and lower covers is preferably also made from a blank (not shown) bent to form the four side walls, the two ends of said blank forming one of the vertical corners of the cover and being secured preferably by means of an adhesive strip 4. The closure means for the top of the upper cover A and the bottom of the lower cover B preferably comprises four end closure flaps 5 on the four side walls of each cover, the closure flaps of the two opposite side walls being bent inwardly into edgewise abutting relation and the closure flaps of the two other opposite side walls being bent inwardly into edgewise abutting relation over the two first mentioned inwardly bent closure flaps and adhesively secured flatwise thereto.

In packing the above carton, the short lower liner section B is placed within the upwardly opening lower cover D with its lower end seated on the bottom of said cover and with its upper end disposed below the level of the upper end thereof. The low height of the lower liner section B permits easy access to be had to the lower portion thereof for packing. After the short

lower liner section B has been filled, one end of the longer upper liner section A is inserted in the upper end of the lower cover D and seated on the upper edge of said lower liner section. The upper liner section A is then filled, after which the upper cover C is telescoped downwardly over said upper liner section and seats on the upper end thereof and on the upper end of the lower cover D.

The above carton is of simple and of inexpensive construction and may be readily assembled and packed. The sectional liner permits easy access to be had to the lower portion of the relatively tall carton. The lower end portion of the upper liner section is supported laterally in the lower cover and is also supported vertically therein by the interior ledge formed by the upper end of the lower liner section; and the telescopic engagement of the upper liner section with both covers prevents relative lateral displacement thereof.

What I claim is:

A relatively tall heavy duty shipping carton comprising an upwardly opening lower cover, a separate upright tubular open-ended liner having a height which prevents an average person from reaching through the open upper end of said liner member to the lower portion thereof, said liner comprising separate upper and lower sections of the same cross-sectional size and shape,

said lower liner section having a slip-fit in said lower cover and terminating short of the upper end thereof, said upper liner section extending upwardly from said lower liner section with its lower portion slip-fitted in the upper end of said lower cover and seated on the upper end of the lower liner section therein, and a downwardly opening upper cover telescoped over the upper end of said upper liner section with its lower end disposed in abutting relation to the upper end of said lower cover, whereby said carton is adapted to be assembled and packed by first inserting said lower liner section in said upwardly opening lower cover, then filling said lower liner section, then inserting the lower end of said upper liner section in said lower cover, then filling said upper liner section and then applying said downwardly opening upper cover to the upper end of the filled upper liner section.

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The following references are of record in the file of this patent:

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