No. 694,275. Patented Feb. 25, 1902.

M. HERZ.

PACKING BOX.

(Application filed Oct. 2, 1901.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

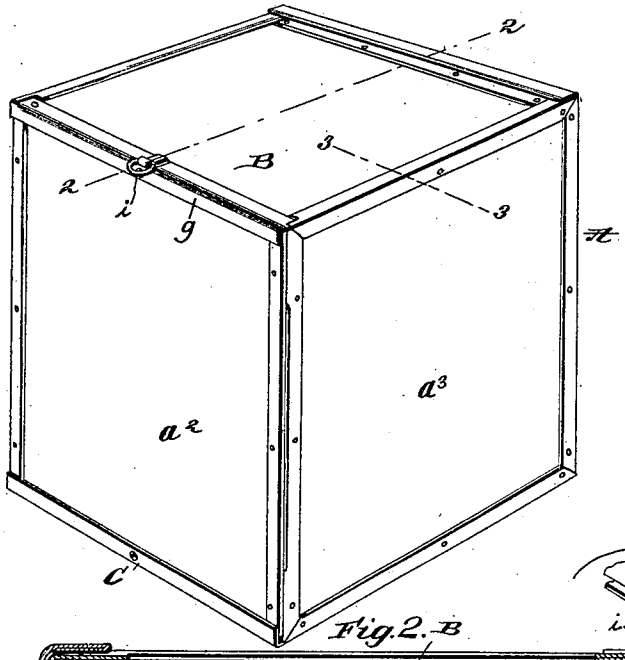


Fig. 3.

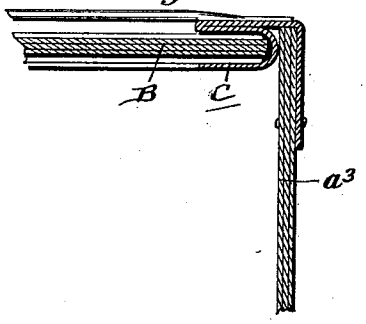


Fig. 4.

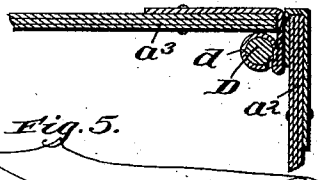


Fig. 5.

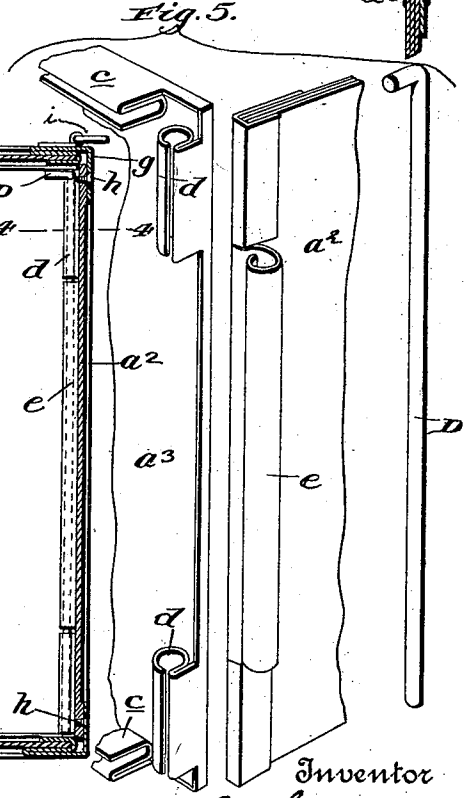
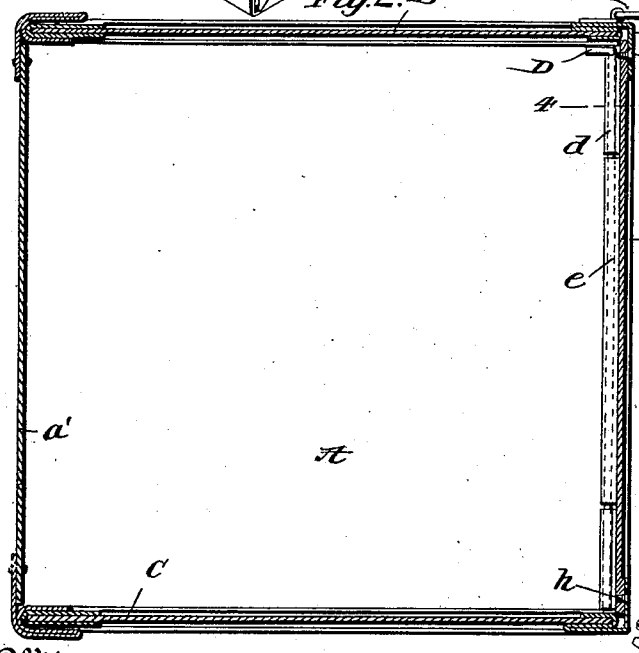


Fig. 2.



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No. 694,275. Patented Feb. 25, 1902.

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PACKING BOX.

(Application filed Oct. 2, 1901.)

(No Model.) 2 Sheets—Sheet 2.

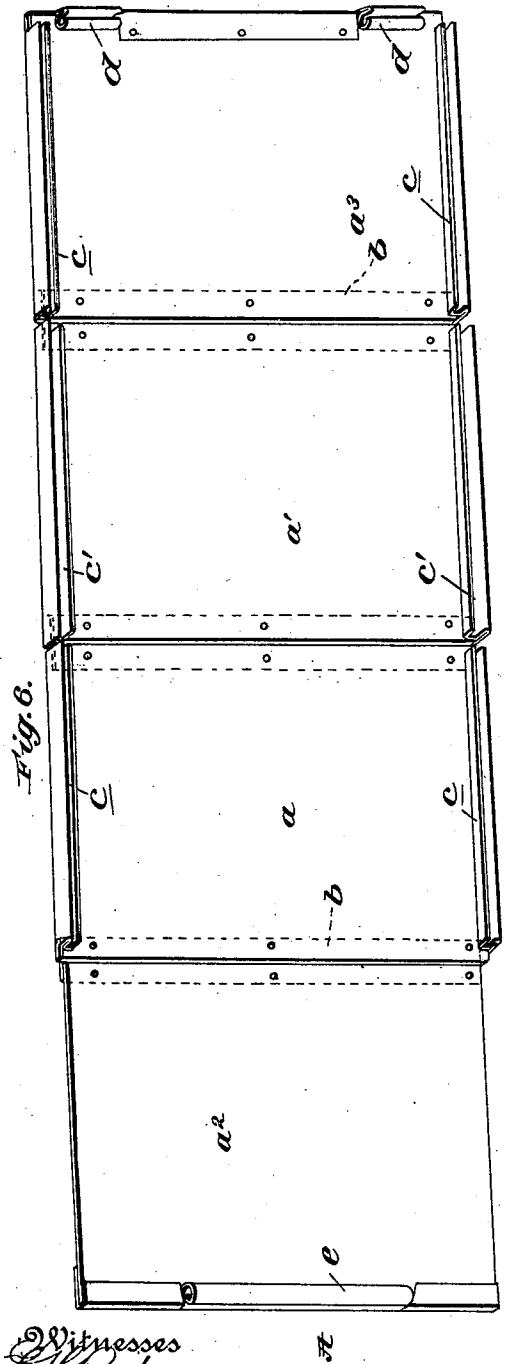


Fig. 6.

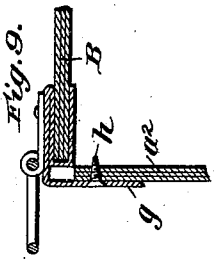


Fig. 9.

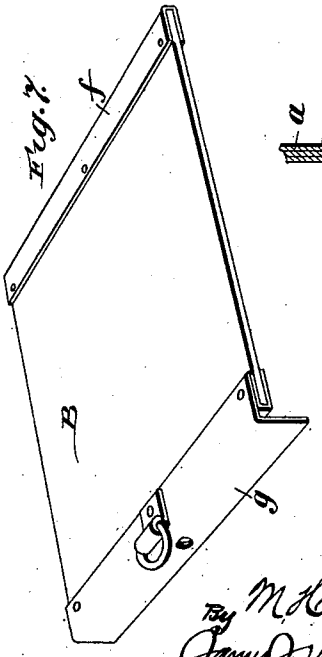


Fig. 7.

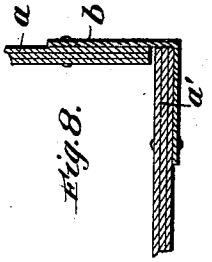


Fig. 8.

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UNITED STATES PATENT OFFICE.

MARTIN HERZ, OF BROOKLYN, NEW YORK.

PACKING-BOX.

SPECIFICATION forming part of Letters Patent No. 694,275, dated February 25, 1902.

Application filed October 2, 1901. Serial No. 77,313. (No model.)

To all whom it may concern:

Be it known that I, MARTIN HERZ, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Packing-Boxes, of which the following is a specification.

My invention relates to improvements in packing-boxes; and it contemplates the provision of a light, stiff, and strong packing-box, formed in the main of veneer sections, and one which is susceptible of being readily reduced to such form that it will take up but little space in storage and shipment and as readily set up again for use.

The improved box is designed more particularly for use in the tea trade, since when it is discharged of its contents it may be knocked down and returned at small cost to be refilled. It may, however, be used to advantage in other connections, as is obvious.

With the foregoing in mind the invention will be fully understood from the following description and claims when taken in connection with the accompanying drawings, in which—

Figure 1 is a perspective view of my improved box as it appears when set up ready for use. Fig. 2 is a vertical section taken in the plane indicated by the line 2 2 of Fig. 1. Fig. 3 is an enlarged detail section taken on line 3 3 of Fig. 1. Fig. 4 is a similar view taken on line 4 4 of Fig. 2. Fig. 5 comprises enlarged disconnected perspective views of the parts forming the corner-fastening of the box-body. Fig. 6 is a perspective view of the box-body as it appears when flattened out for storage or shipment. Fig. 7 is a perspective view of the removable top of the box. Fig. 8 is an enlarged detail section illustrating one of the bendable corner-strips of the body. Fig. 9 is a similar view illustrative of the manner in which the top and bottom of the box are connected to the body.

Referring by letter to the said drawings, A is the body of my improved box, B the removable top, and C the removable bottom. The body in the preferred embodiment of the invention comprises four rectangular sections or walls a a' a^2 a^3 of two or three ply veneer, which material is advantageous because of its lightness, rigidity, and strength, corner-strips b of bendable metal extending throughout the height of the sections or walls and connecting the adjacent edges thereof, guideways c of sheet metal or other suitable material connected to and extending inwardly from the upper and lower edges of the sections or walls a and a^3, seats c' c' of sheet metal or other suitable material connected to and extending inwardly from the upper and lower edges of the section or wall a', barrels d of sheet metal or other suitable material connected to the upper and lower portions of the outer vertical edge of the section or wall a^3, and a barrel e on the intermediate portion of the outer vertical edge of the section or wall a^2. By virtue of the bendable strips b between the sections or walls a a' a^2 a^3 the body A may be readily opened out flat, as shown in Fig. 6, to lessen the cost of transporting the box, and as readily folded into the form shown in Fig. 1. When the body is folded into the latter form, the ends of the guideways c on the sections a and a^3 will take into the seats c' on the section a', and thereby reinforce and strengthen the connections between the sections a' and the sections a and a^3, and the barrel e on section a^2 will register with the barrels d on the section a^3. Then when a bolt D, such as shown in Figs. 2 and 5, is dropped into the coincident barrels d e the body will be secured in the form shown in Fig. 1, ready to receive the top B and bottom C. The said top and bottom, which are also preferably formed of two or three ply veneer, have their inner edges protected by sheet-metal coverings f and are provided at their outer ends or edges with flanges g. These latter are designed, when the top and bottom are arranged in the guideways c and seat c' of the body, to be connected by screws h to the section or wall a^2 of the body.

As will be readily appreciated, the top and bottom of the box may be readily inserted in the guideways c of the body until their inner ends or edges rest in the seats c', and in order that they may be as readily withdrawn when desired they are preferably provided on their flanges g with finger-rings i.

It will be observed from the foregoing that when the top and bottom are arranged in the guideways c and seats c' of the body a box is formed which is at once light, stiff, and

strong, and hence adapted to be used to advantage for shipping tea and the like, and it will also be observed that when the top and bottom and the bolt D are removed from the body said body may be opened out flat, as shown in Fig. 6, and the top and bottom superposed thereon, so that the box as a whole will take up but a minimum amount of space. From this it follows that after being discharged of its contents the box may be returned at small cost to be refilled and that this operation may be repeated so long as the box is fit for use.

I have entered into a detailed description of the construction and relative arrangement of parts embraced in the present and preferred embodiments of my invention in order to impart a full, clear, and exact understanding of the same. I do not desire, however, to be understood as confining myself to such specific construction and arrangement of parts, as such changes or modifications may be made in practice as fairly fall within the scope of my claims.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a knockdown box, the combination of the body comprising the sections or walls a a' a^2 and a^3, strips of bendable metal connecting the sections a a', strips of bendable metal connecting the sections a a' to the sections a^2 a^3, respectively, the inwardly-directed seats connected to the upper and lower ends of the section a' and extending throughout the width thereof, and the inwardly-directed guideways connected to the upper and lower ends of the sections a^2 a^3 and having inner ends of a size to enter the seats on section a' when the sections a a^3 are disposed at right angles to said section a', and removable top and bottom sections or walls arranged in the seats and guideways of the said body sections or walls.

2. In a knockdown box, the combination of the body comprising the sections or walls a a' a^2 and a^3 of veneer, strips of bendable metal connecting said sections or walls, the sheet-metal seats connected to the section or wall a' and extending inwardly from the upper and lower ends thereof, the inwardly-directed sheet-metal guideways connected to the upper and lower ends of the sections a^2 a^3 and having inner ends of a size to enter the seats on section a' when the sections a a^3 are disposed at right angles to said section a', and sheet-metal barrels on the outer vertical edges of the sections or walls a^2 a^3 adapted to register with each other when the body is folded into box form, a bolt adapted to be sheathed in and detachably connect the registered barrels of the sections or walls a^2 a^3, and removable top and bottom walls of veneer, arranged in the seats and guideways of the said body sections or walls and having angular, sheet-metal flanges at their outer ends adapted to be connected to the wall a^2.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

MARTIN HERZ.

Witnesses:
ISABELLE F. BOSEL,
ABRAHAM WORTENDYK.