

No. 708,490.

Patented Sept. 2, 1902.

C. S. MORRIS.
FOLDING DISPLAY BOX OR TRAY.

(Application filed Apr. 21, 1902.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

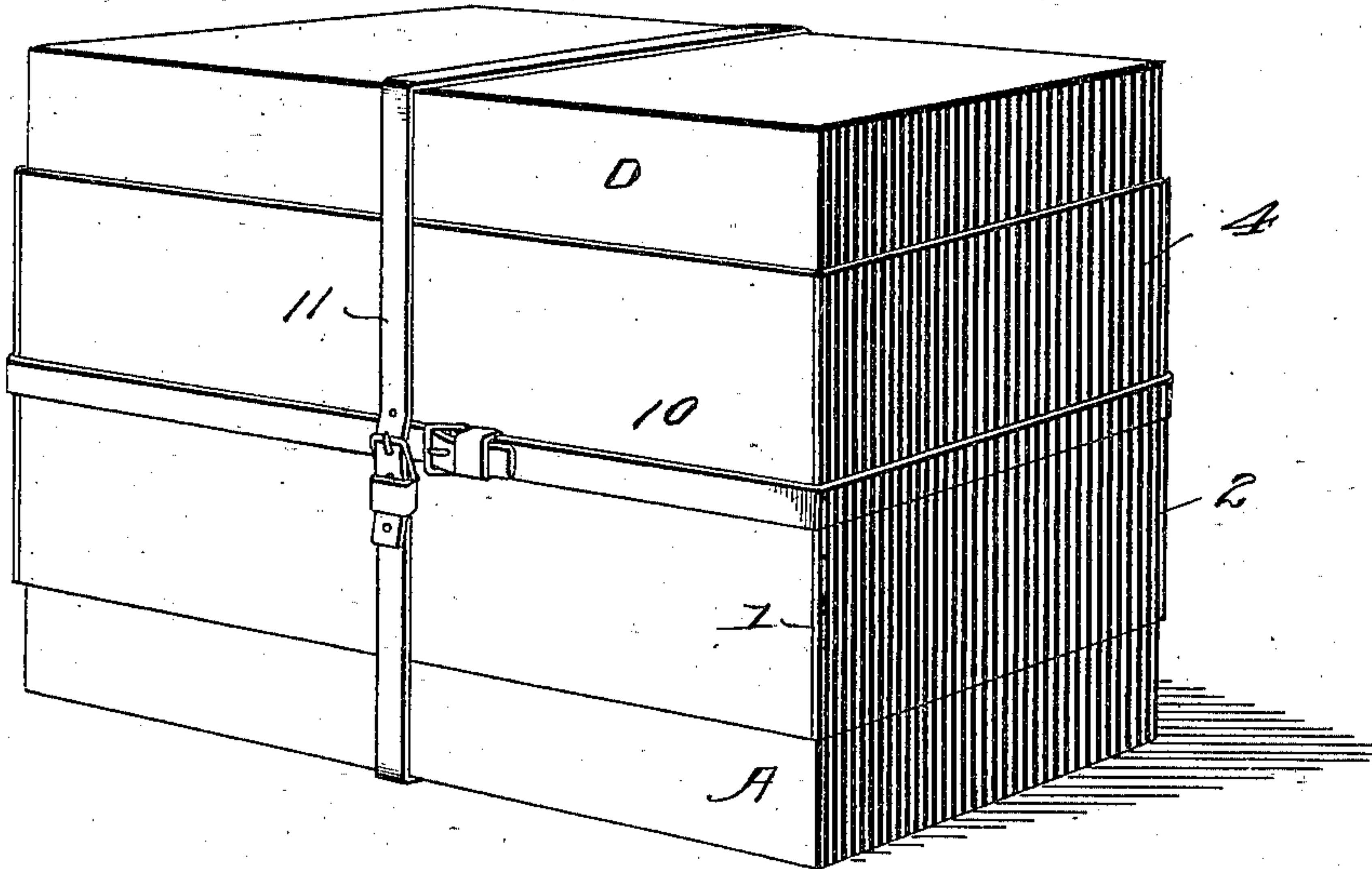
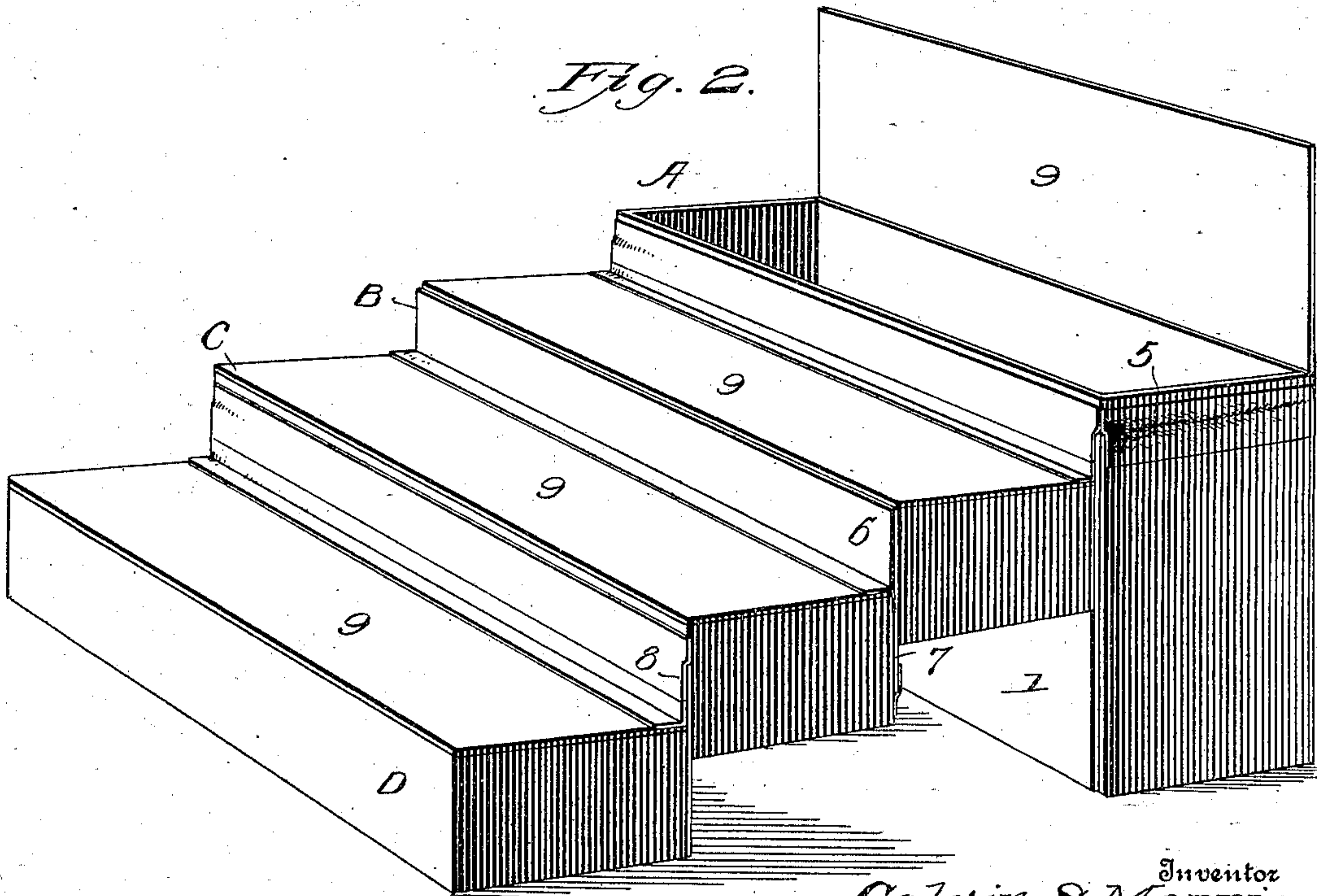


Fig. 2.



Witnesses

Am. Koerth.
A. G. Heymann.

Inventor
Calvin S. Morris,

By

Victor J. Evans
Attorney

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2 Sheets—Sheet 2.

Fig. 3.

Fig. 4.

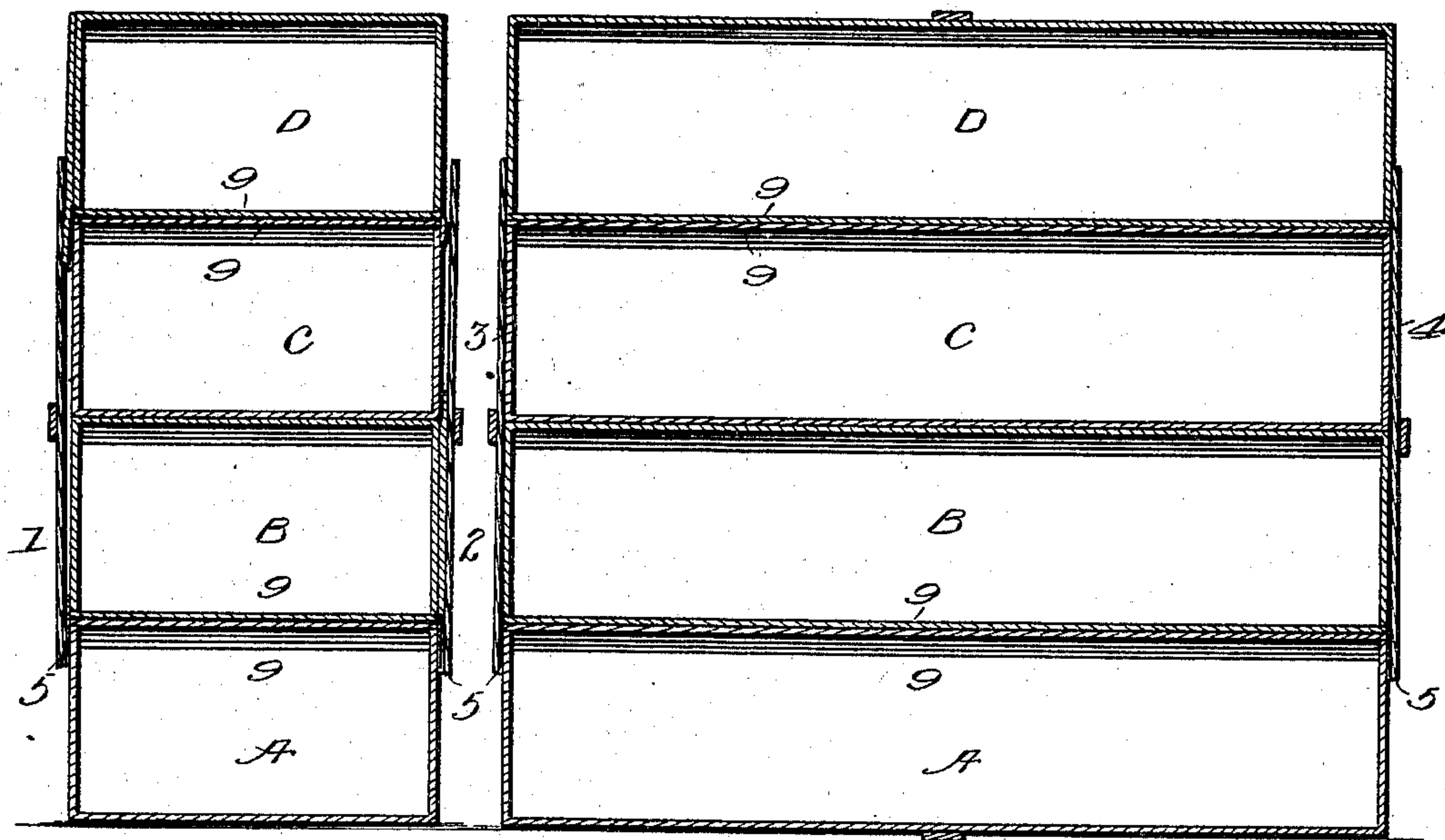
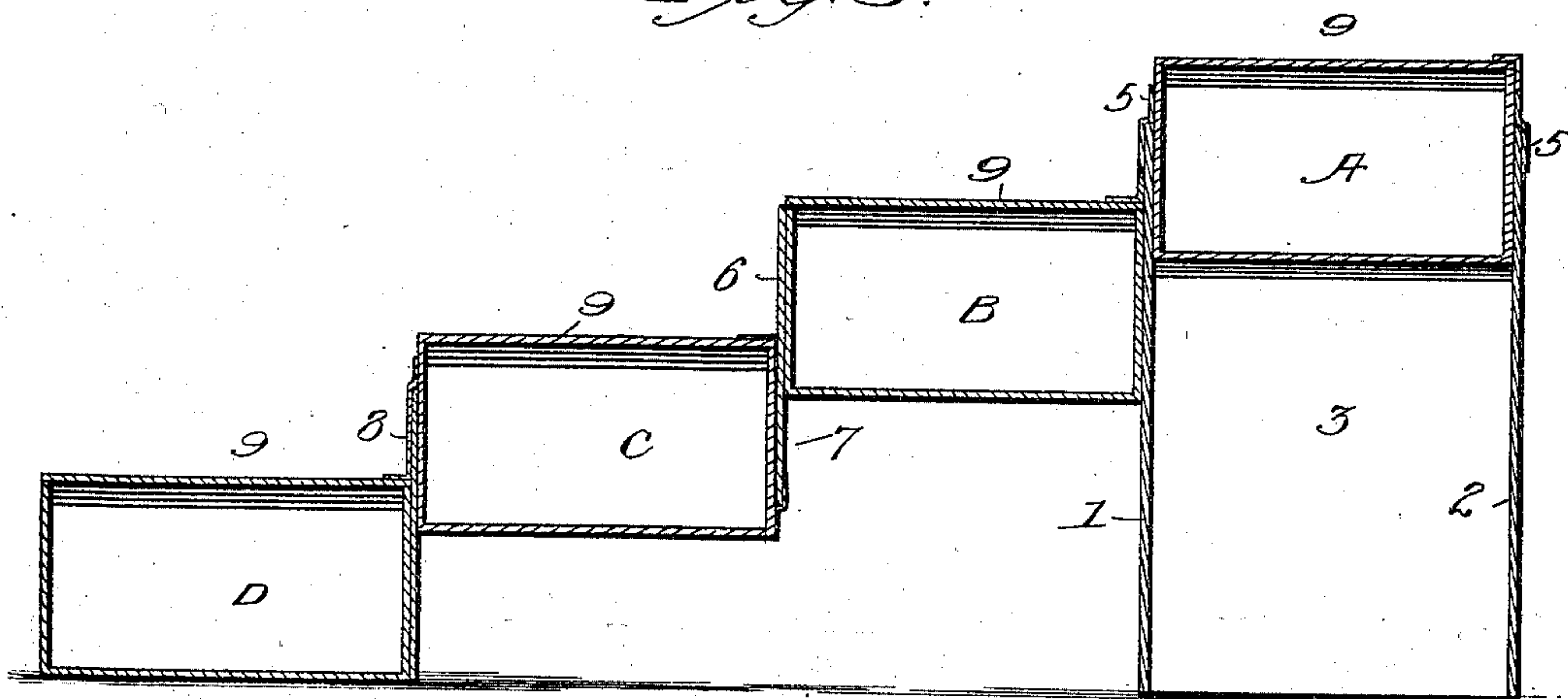


Fig. 5.



Witnesses

Wm. North
A. G. Heymann.

Inventor
Calvin S. Morris,

By *Victor J. Evans*
Attorney

UNITED STATES PATENT OFFICE.

CALVIN S. MORRIS, OF ST. LOUIS, MISSOURI.

FOLDING DISPLAY BOX OR TRAY.

SPECIFICATION forming part of Letters Patent No. 708,490, dated September 2, 1902.

Application filed April 21, 1902. Serial No. 104,090. (No model.)

To all whom it may concern:

Be it known that I, CALVIN S. MORRIS, a citizen of the United States, residing at St. Louis, State of Missouri, have invented new and useful Improvements in Folding Display Boxes or Trays, of which the following is a specification.

My invention has relation to improvements in folding display boxes or trays of that kind or style which may be folded one upon the other and may be arranged in extension and held at different decreasing heights by the connections between the boxes, with their tops open and their contents subject to visual inspection and display.

My invention consists in the novel construction of parts and their arrangement and aggroupment in combination, as herein will be fully specified and then particularly pointed out and distinctly claimed.

I have fully and clearly illustrated the invention in the accompanying drawings, wherein—

Figure 1 is a perspective view of the device nested or folding and secured together by straps. Fig. 2 is a perspective view of the device extended and held in position by the plates, flaps, or side pieces. Fig. 3 is a vertical section through the series of trays, taken transversely through them. Fig. 4 is a longitudinal vertical section through the device, as when the trays are arranged one upon the other. Fig. 5 is a view in vertical cross-section showing the trays in relative extension.

It will be premised that each of the trays are of equal size and capacity and may be made of any suitable material, such as sheet metal, leather, wood, or paper-board covered with canvas.

Now referring to the drawings, A designates the first tray of the number used, which is of such size and capacity as may be required or desired to suit it to the purposes of its uses. To the opposite sides and ends of this tray A are hinged rectangular plates 1, 2, 3, and 4, which constitute supports for the tray A when in the position seen in Figs. 2 and 5 and as shields or binders when the trays are folded and the plates are turned up against the trays, as shown in Figs. 1, 3, and 4. The hinges of the plates are made of flexible strips 5, of any suitable material, such as strong tex-

tile material secured by cementation, so that the plates can be turned vertically down or reversed and lie flat against the sides and ends of the trays when arranged in vertical succession, as shown.

To the plate 1 is secured the second tray B, a counterpart or duplicate of the tray A, so arranged that it moves and turns from its position on the latter with the plate 1 and projecting therefrom in horizontal position, as shown in Figs. 2 and 5. To the tray B on its outer face is secured a plate 6, which extends the proper distance below the bottom of this tray, as at 7. It is obvious that the side of the tray may be made of rigid material and the extension 7 be integral with the side. To the lower edge of the extension 7 is hinged the tray C in such a manner that when turned up into position it will set with the bottom on the tray B. To the outer side of the tray C is hinged the tray D by means of a vertical extension of the inner side or by means of a plate secured to the side of the tray and extending above the edge, as indicated at 8. Covers 9 are provided for the trays, which may be hinged thereto or secured in any suitable manner. When the trays are folded or arranged as seen in Fig. 1 of the drawings, they are held between the plates and together by straps or ties 10 11, fastened around the plates and trays longitudinally and vertically, as shown.

The utilization of the device may be stated as follows: When the cases or trays are in the condition shown in Fig. 1 and it is desired to extend them, as shown in Fig. 2, the fastening-straps are released, which leaves the end plates and outer side plate 2 free to be turned down to serve as supports for the bottom tray, as seen in Figs. 2 and 5, to hold it elevated. Then by turning the top tray D outward and over the tray C is turned over and outward and in succession the tray B will be turned outward and over, carrying with it the plate 1, so that the plate stands vertical in depending position, as in Fig. 5, and will constitute the inner support for the trays A and B. This manipulation disposes all the covers in upper position, so they can be raised or removed and the contents of the trays displayed to visual inspection or observation. To return the trays to the position

of resting one on the other in vertical succession, as shown in Figs. 3 and 4 of the drawings, after the covers have been closed or replaced the tray D is turned over and
5 down on tray C. Then by lifting the trays C and D the tray B will be turned on its hinged connection to tray C and to plate 1 until it rests with its cover on the cover of tray A. As tray B is turned over it carries
10 with it the plate 1, which assumes a vertical position against the side and laps the plate 8. The other side plate 2 is then turned up against the sides of the assembled trays, the end plates then turned up against the ends of the
15 trays, the straps or ties applied, and the device is ready for transportation or portage.

It may be stated that the trays may be extended expeditiously by simply turning the upper one over and outward and then exert-
20 ing an outward force, which will turn the remaining trays except the first over and outward in succession.

The device is well adapted for the shipment and display of candies, crackers, and other
25 goods and may be utilized for textile samples.

Having described my invention, what I claim is—

1. A shipping and display device comprising a plurality of trays hinged together to
30 fold one upon the other in vertical succession and whereby they can be extended and stand on parallel planes of decreasing heights, plates hinged to the sides and ends of the bottom tray adapted to turn into vertical position
35 against the trays, and fastening means to hold the plates against the trays.

2. A shipping and display device, comprising a tray A, plates hinged to the sides and ends thereof, a tray B secured to the inner
40 face of one of the side plates to turn outward with said plate, a plate 6 secured to the outer side piece of tray B and extending below the bottom thereof, a tray C hinged to the plate
45 6, and a tray D formed with a vertical side extension hinged to the tray C, said trays being adapted to fold one upon the other with the hinged plates of tray A turned against their sides and ends, and fastenings to bind
50 the plates and trays together.

In testimony whereof I affix my signature in presence of two witnesses.

CALVIN S. MORRIS.

Witnesses:

A. H. WENNEKER,

E. J. KLEINSCHMIDT.