No. 803,102. PATENTED OCT. 31, 1905.

A. N. HARRIS.

SLIDING TRAY.

APPLICATION FILED JAN. 27, 1905.

Fig. 1.

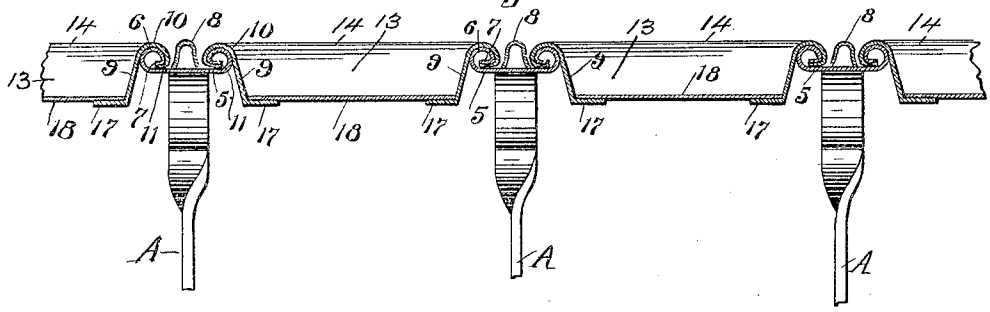


Fig. 2.

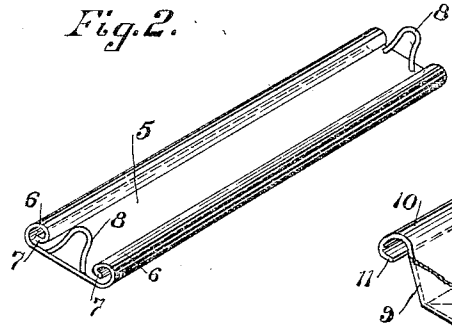


Fig. 3.

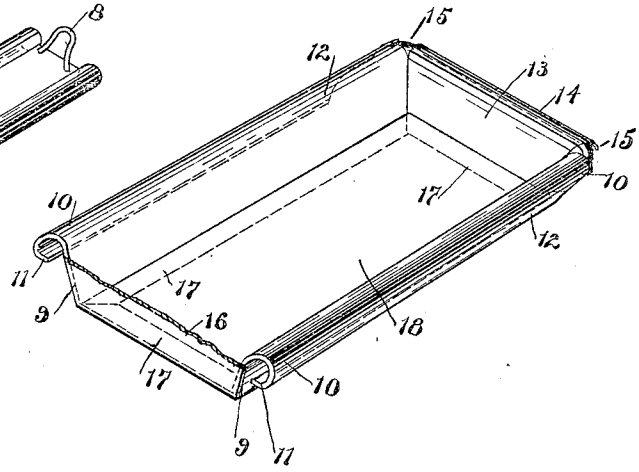


Fig. 4.

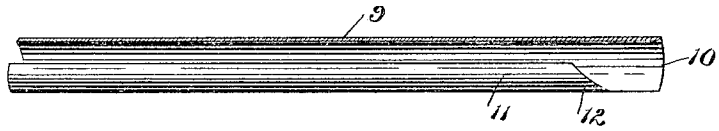
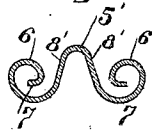


Fig. 5.



Witnesses:

Walter R. Naylor

Raphael G. Blanc.

Inventor:

Adelbert N. Harris

By Henry J. Miller

atty.

ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ADELBERT N. HARRIS, OF DETROIT, MICHIGAN.

SLIDING TRAY.

No. 803,102. Specification of Letters Patent. Patented Oct. 31, 1905.

Application filed January 27, 1905. Serial No. 242,353.

To all whom it may concern:

Be it known that I, ADELBERT N. HARRIS, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Sliding Trays; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in sliding trays and in their slides, which are particularly designed for display-cabinets.

The object of the invention is to so construct a sliding tray of this nature that it may readily be removed and replaced in its supports.

Another object of the invention is to provide a simple and durable tray of this nature having a transparent bottom.

Other objects of the invention will appear from the following description.

The invention consists in the peculiar construction of the tray and of its slides on which the tray is movably supported.

Figure 1 represents a cross-sectional view of a series of the improved trays and the supports on which said trays slide. Fig. 2 represents a perspective view of one of the supports removed from its bracket. Fig. 3 represents a similar view of one of the trays, parts of one end being broken away. Fig. 4 represents a longitudinal sectional view of one side of the tray in the reversed position. Fig. 5 represents a cross-sectional view of one of the guide-strips, illustrating a modified construction.

Similar characters of reference designate corresponding parts throughout.

In carrying this invention into practice my object has been to produce a durable ornamental metallic sliding tray having a glass or other transparent bottom and designed particularly for use in cabinets adapted for the display of goods for sale, the conditions of its use requiring that the tray should be readily removed from its supporting-guides for the close inspection of goods contained therein and as readily replaced so as to slide on its guides, being when in place held in position from tipping or other undue movement.

As illustrated herein in its preferred form, 5 5 indicate slides, which have the inwardly-curved edge portions 6 6, the edges of which are bent outward to curve under the portions 6 6, as shown. On the surfaces of the slides 5 5 are the vertically-extending guides 7 7, the edges of which curve toward the edge portions 6 6.

The trays are formed from sheet metal bent up to form the sides 9 9, having the outwardly-bent upper portions 10 10 and the inwardly-curved edges 11 11, corresponding to the curved portions 6 6 and 7 7 of the guides, whereby said portions of the slides may be received within the corresponding curved portions 10 10 and 11. At the rear of the tray the inwardly-curved portions 11 11 are cut away approximately as shown by the edges 12 12, Figs. 3 and 4. Rear end 13 of the tray has the outwardly-curved portion 14, which is connected by the mitered corners 15 15 with the similarly-curved portions 10 10 of the sides 9 9, the front 16 being of any suitable and durable construction, being herein broken away to more clearly show the curved portions 10 10 and 11 11 of the sides 9 9. The sides 9 9 and the front 16 and back 13 are provided with the inwardly-bent lips 17 17, adapted to support the bottom 18, which is preferably of glass or other transparent material. The slides 5 5 are supported by the standards A A, which may be of any usual construction and shape.

In the modified form shown in Fig. 5 the strip of metal forming the body of the guide 5′ is bent upward along its median line to form the projection 5′, the side surfaces of which form the guides 8′ 8′.

When placing the tray in position on the guides, the rear ends of the bent portions 10 10 rest on the bent portions of a pair of the plates 5 5 without any particular nicety of adjustment. Then as the tray is pushed backward the inturned edges 11 11 of the tray sides are guided by the guides 8 8 beneath the corresponding portions 7 7 of the guide-plates 5 5, whereby the tipping of the tray forward is prevented. The engagement of the portions 11 11 of the tray with those 7 7 of the guide-plates is facilitated by the inclined edges 12 12.

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

1. The combination with a pair of sheet-metal plates having inwardly-rolled edges to form guides, and upwardly-extending guide members located between said edges, of a tray comprising a sheet-metal frame the edges of which are rolled outward, to embrace the rolled edges of the guide-plates, and are cut away at one end whereby said rolled edges of

the tray sides may be guided beneath the corresponding portions of the guide-plates by said guide members.

2. The combination with a sheet-metal frame comprising sides 9 9 and ends 13 and 16 having inwardly-bent lips 17 17 sides having outwardly-curved portions 10 10 with inwardly-bent edges 11 11, and a glass plate 18 supported by the lips 17 17, of suitable guides for said edge portions, substantially as described.

3. The combination with plates 5 5 having rolled edges 6 7 6 7, and guide members 8 8 secured between said members, of a tray having a sheet-metal frame comprising sides 9 9 having rolled edges 10 11, 10 11, the portions 11 11 being cut away at the rear ends as at 12 12, as and for the purpose described.

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

ADELBERT N. HARRIS.

Witnesses:

CARL F. RAUSCHER,

WILL C. MILLER.