May 8, 1923. 1,454,038

W. M. CARTER

COLLAPSIBLE DISPLAY DEVICE

Filed Oct. 21, 1921 2 Sheets-Sheet 1

Fig. 1.

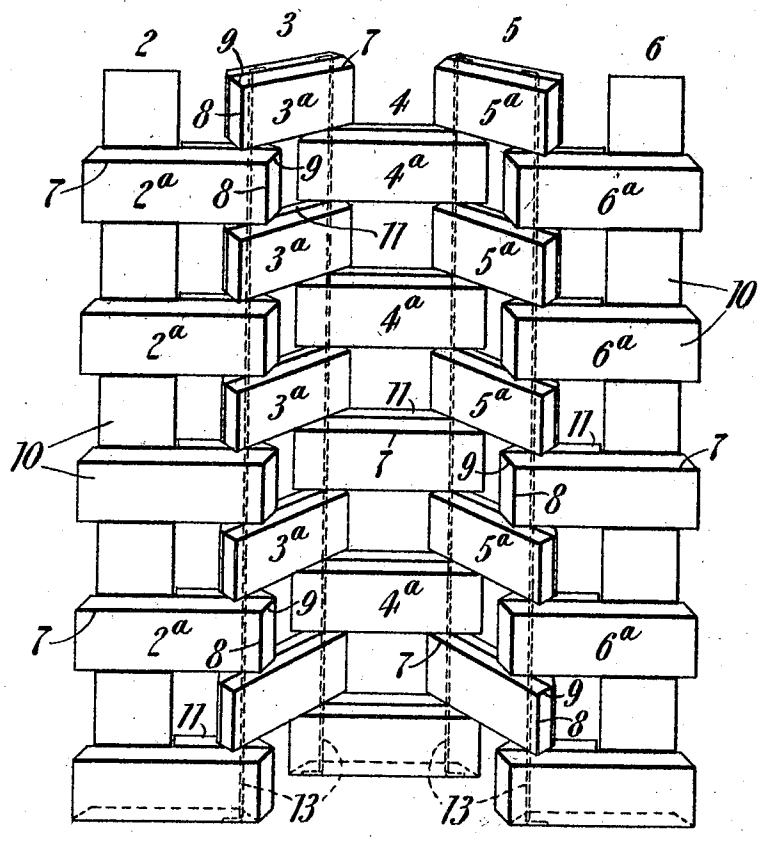


Fig. 2.

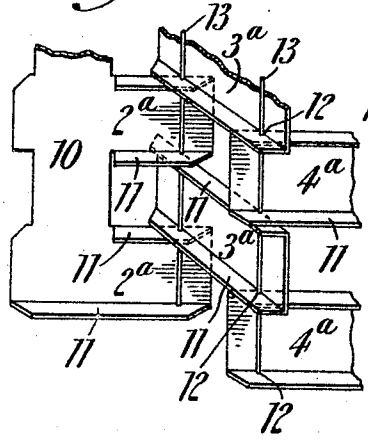
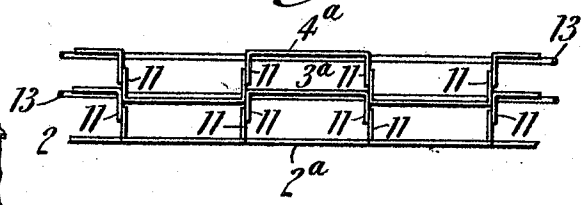


Fig. 3.



Inventor;
Willis M. Carter;
By Wilbur M. Stone
his Attorney.

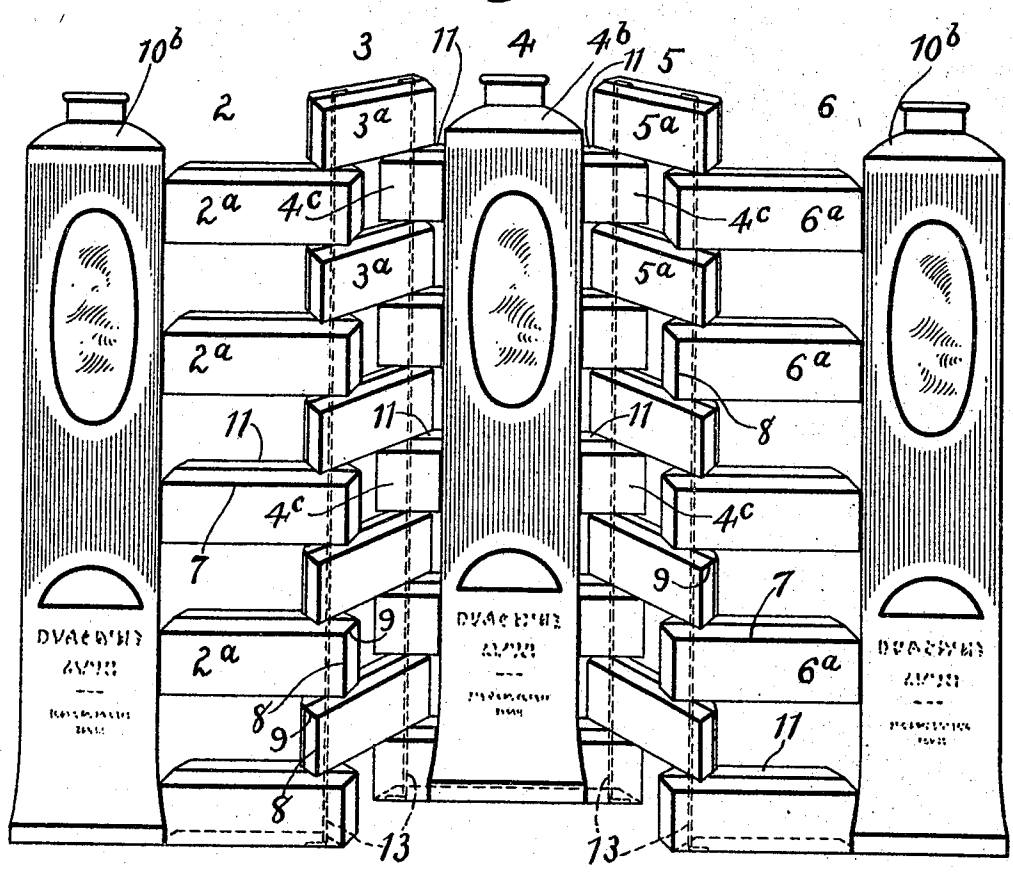
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Fig. 4.



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Patented May 8, 1923. 1,454,038

UNITED STATES PATENT OFFICE.

WILLIS M. CARTER, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO THE CARTER-LUDWIG COMPANY, INCORPORATED, OF HOBOKEN, NEW JERSEY, A CORPORATION OF NEW JERSEY.

COLLAPSIBLE DISPLAY DEVICE.

Application filed October 21, 1921. Serial No. 509,294.

To all whom it may concern:

Be it known that I, WILLIS M. CARTER, a citizen of the United States, and a resident of Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Collapsible Display Devices, of which the following is a specification.

This invention relates to collapsible display devices and has for its object to provide a device of the character specified of simple and rigid construction and which may be folded into compact form for stacking and shipping.

With these ends in view my improvements comprise features illustrated in their preferred embodiment in the drawing accompanying this specification, wherein:—

Figure 1 is a front perspective view of my improved device in display position. Fig. 2 is a fragmentary rear perspective view showing some details of construction. Fig. 3 is a fragmentary edge view showing the device in collapsed condition. Fig. 4 is a perspective view similar to that of Fig. 1, showing a modified form of my improvements. Figs. 1, 2 and 4 are to one scale and Fig. 3 is to a scale about twice that of the other figures.

My improved device is illustrated as representing a plurality of articles or boxes stacked in a plurality of piles, the ends of the articles or boxes in one vertical pile interlocking between similar ends of the boxes in an adjacent pile, all having much the appearance of the well known snake fence.

For convenience, I have illustrated my improved device as comprising five vertical piles of elements but it will be obvious that a greater or less number of such piles may be employed.

Each article or box element may be represented in perspective by means of lines, as 7, 8, 9, on those boxes in piles 2, 3, 5 and 6, and by the single horizontal line 7 on those boxes in mid-pile 4.

The end piles 2 and 6 are preferably unitary members, respectively, each comprising a length-wise strip 10 of sheet material, preferably card board, having portions, as 2^a of pile 2, projecting transversely therefrom. Those portions of strip 10 between the transverse portions 2^a, may bear suitable printed matter, not shown. The intermediate piles, as 3, 4 and 5, are made up of a plurality of units, as 3^a, 4^a and 5^a.

Projecting backwardly from the opposite edges, upper and lower in Figs. 1 and 2, of portions 2^a, and from similar opposite edges of the intermediate units, as 3^a, 4^a, and 5^a of piles 3, 4 and 5, respectively, are flanges 11 respectively, Fig. 1, at substantially right angles to the members from which they project. Said flanges 11 are provided with aligned holes 12 therethrough for the passage of pivot rods 13 respectively, on which the several elements are assembled into an articulated whole.

In Fig. 3 the device is shown in collapsed condition, wherein flanges 11, 11 of a member 3^a are folded in nested formation between flanges 11, 11 of a portion 2^a of lengthwise strip 2. By this arrangement the device occupies a minimum of space for stacking and shipping.

In the showing of Fig. 4, the lengthwise strips 10 of end piles 2 and 6 of Fig. 1, are carried out to the extreme opposite side, respectively, of said piles and are made to represent in mammoth size articles supposed to be contained in the piled boxes, respectively. For purposes of illustration, a collapsible tube 10^b, containing tooth paste or the like, is represented. Also, if desired, the mid-pile 4 of Fig. 1 may represent an article 4^b, Fig. 4, similar to articles 10^b of that figure. In this case said member 4^b is provided with opposite portions 4^c projecting transversely therefrom, each preferably having upper and lower flanges 11, similar to those in Fig. 1, for articulation with adjoining members of the device. Said portions 4^c may represent ends, respectively, of the boxes of pile 4 for instance, if desired.

Other modifications within the scope of my invention will be obvious to those skilled in the art.

I claim:

1. A collapsible display device including in combination a pair of opposite length-wise strips of sheet material each having a plurality of portions projecting transversely therefrom, a flange projecting backwardly from each upper and lower edge of each transverse portion, a plurality of intermediate units of sheet material each having a flange projecting backwardly from each of

two opposite edges respectively thereof, a series of aligned holes through the flanges of the pair of strips and through the flanges of the several intermediate units, and pivot rods through said holes whereby the lengthwise strips and the intermediate units are assembled in an articulated whole.

2. A collapsible display device including in combination a pair of opposite lengthwise strips of sheet material each having a plurality of portions projecting transversely therefrom, a flange projecting backwardly from each upper and lower edge of each transverse portion, a plurality of intermediate units of sheet material each having a flange projecting backwardly from each of two opposite edges respectively thereof, a series of aligned holes through the flanges of the pair of strips and through the flanges of the several intermediate units, and pivot rods through said holes whereby the lengthwise strips and the intermediate units are assembled in an articulated whole, said flanges being adapted and arranged for nesting when the device is in collapsed condition.

3. A collapsible display device including in combination a pair of opposite lengthwise strips of sheet material each having portions projecting transversely therefrom, flanges projecting backwardly from edges of said transverse portions respectively, an intermediate unit of sheet material having flanges projecting backwardly therefrom, a series of aligned holes through said flanges, and pivot rods through said holes whereby the several members are assembled into an articulated whole.

In witness whereof, I hereby affix my signature this 20th day of October, 1921.

WILLIS M. CARTER.