

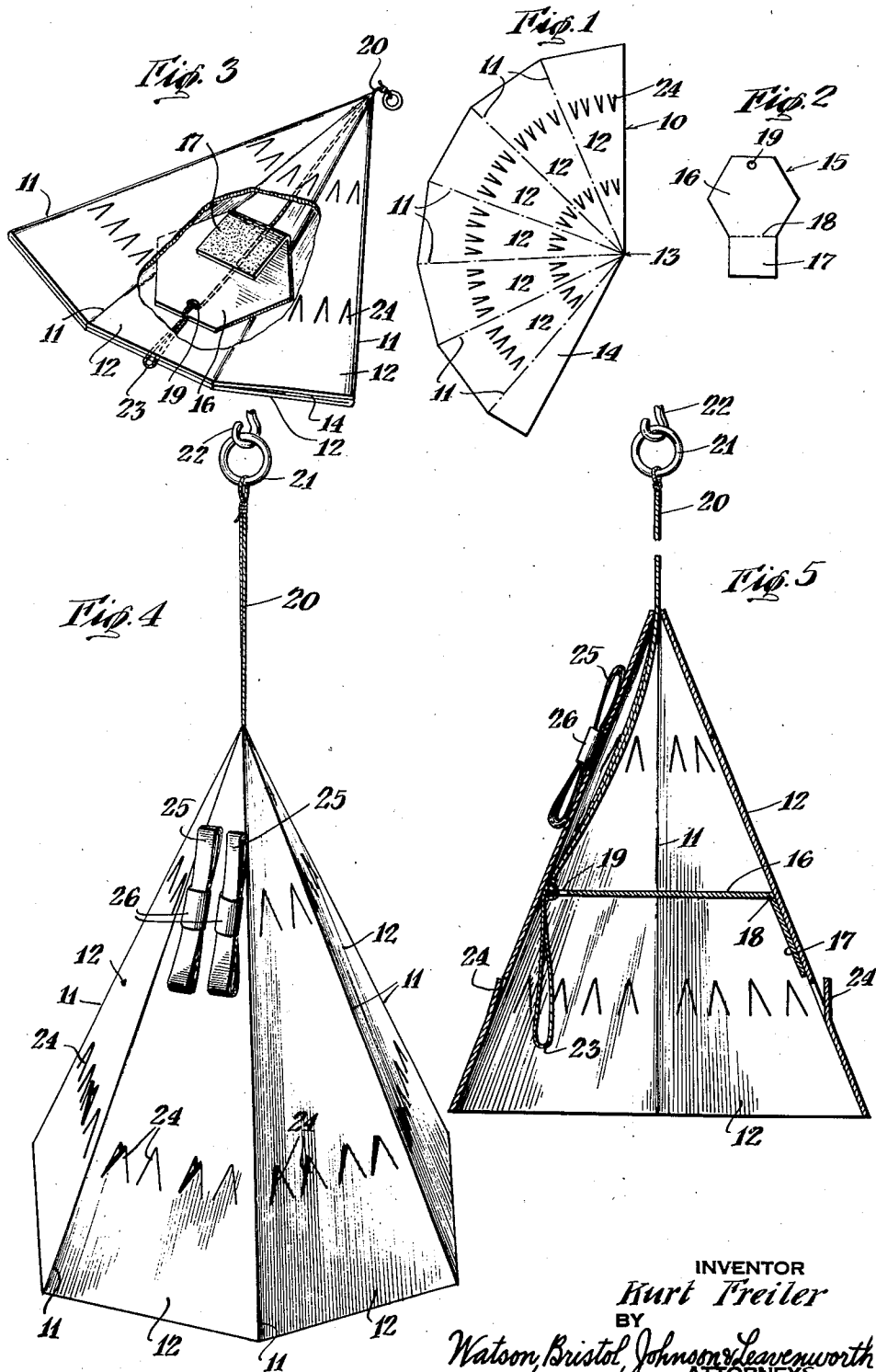
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DISPLAY DEVICE

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DISPLAY DEVICE

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5 Claims. (Cl. 211-113)

The present invention relates to collapsible display devices particularly adapted for the display of merchandise and has for a general object the provision of such a device which is efficient, is easily and economically constructed, and is of simple construction which permits it to be folded readily into a substantially flat condition allowing it to be handled and transported with ease and to be expanded easily and simply into display position.

A more specific object of the invention is the provision of such a device constructed of suitably stiff material such as cardboard which is provided with means adapted efficiently to hold the device in an expanded display condition when supported by suspending means, the holding means being operable in a manner permitting ready folding of the device into substantially flat condition adapted to easy handling and efficient packing.

A further object is the provision of a display device characterized by a collapsible hollow body provided inside with bracing means which is easily manipulated to a bracing position efficiently to hold the device in expanded condition when suspended by supporting means associated with the bracing means, the latter being also readily operable in a simple manner permitting collapsing of the device into a substantially flat form.

Other objects of the invention will in part be obvious and will in part appear hereinafter.

The invention accordingly comprises the features of construction, combination of elements and arrangement of parts, which will be exemplified in the construction hereinafter set forth and the scope of the invention will be indicated in the claims.

For a fuller understanding of the nature and objects of the invention, reference should be had to the following detailed description taken in connection with the accompanying drawing, in which:

Fig. 1 is a plan view of a blank for the body of one form of the display device of the present invention;

Fig. 2 is a plan view of a blank for the bracing member adapted for use with the body blank shown in Fig. 1;

Fig. 3 is a perspective view with parts broken away of a collapsed display device of the invention, the parts of which are shown in Figs. 1 and 2;

Fig. 4 is a perspective view of the expanded display device shown in Fig. 3, showing the de-

vice being used for display of merchandise; and

Fig. 5 is a sectional elevational view of the expanded display device shown in Fig. 4.

The display device of the present invention is in the form of a hollow body of suitable stiff material such as cardboard or the like which can be collapsed into substantially flat form for ease in handling and transporting while occupying minimum space. The hollow body may be in any desired shape which will permit it being collapsed, for example, in the shape of a hollow cone or a pyramid or a segment thereof. The hollow body has hinged to it on the inside thereof a bracing member shaped to hold the body in expanded position, preferably shaped similar to a cross-section of the body taken at the location of hinge-mounting of the bracing member. A suspending member is attached at one end to the bracing member, and extends to the outside of the body at the top thereof so that the bracing member can be pulled into bracing position by the suspending member and the former will hold the body in expanded display position when suspended or supported by the latter. It is preferred to provide the bracing member with suitable means for swinging it out of bracing position so that the body can be collapsed.

Obviously if the hollow body is tubular or substantially so, such as in the form of a section of a pyramid, cone, or the like, means may be provided at the top for causing the suspending member to assume a substantially axial position when the hollow body is expanded to display position and suspended or supported thereby. A foldable cross brace having a notch or hole therein through which the suspending member extends may serve this purpose.

One form of the device of the present invention which is preferred is shown by way of example in the drawing in which like numerals refer to like parts throughout. The body of the device shown is in the form of a hollow hexagonal pyramid when expanded. The blank 10 shown in Fig. 1 is preferably formed from cardboard and is creased or scored along lines 11-11 for folding and to define six triangular panels or sides 12-12 having a common vertex at 13 and a pasting or anchoring panel 14 adapted to be secured to end panel 12 as shown in Fig. 3 to form the hollow body.

In Fig. 2 is shown a bracing member blank 15 having a main portion 16 shaped similar to a cross section of the body when in expanded display position and a hinge flap 17 defined from

the portion 16 by a score line 18 about which the portion 16 may be swung. The portion 16 is apertured at 19 opposite the side which is attached to the hinge flap 17.

5 The hollow body of the display is formed by securing the pasting panel 14 to the inner surface of the end panel or side 12 and the bracing member 16 is mounted therein by securing in any suitable manner such as by pasting the hinge
10 flap 17 to the inner surface of one of the panels 12 at a position where the bracing member is substantially of the same shape and size as a cross section of the hollow pyramidal body in expanded position.

15 A suspending member 20 such as a string is secured to the portion of the bracing member 16 opposite the scored line 18, preferably by tying it through the aperture 19. When the display device is collapsed as shown in Fig. 3 with the
20 bracing member 16 swung down to lie flat between opposed panels 12, 12, the device can be expanded to display position by simply exerting a pull upon the suspending member 20 to swing the bracing member 16 to the position shown in
25 Fig. 5. It is intended to support the display device in a display position by means of the suspending member 20, a ring 21 attached to the end thereof being engaged over a suitable support 22 thereby to hold the body of the display
30 device in expanded position.

When it is desired to collapse the expanded display device to insure ease in handling, transporting and shipping and so that it will occupy
35 a minimum amount of space, the bracing member 16 is retracted or swung from the bracing position by a pull on any suitable means attached to the bracing member, such as a string 23 also secured to the bracing member by tying through the aperture 19.

40 The display device may be provided with any suitable means for supporting thereon merchandise to be displayed. For example, the panels may be provided with a plurality of fingers or tongues 24—24 which are formed by slitting the
45 stiff material of the body and bending outwardly the so-formed fingers or tongues, as shown. Such a structure is particularly adapted for the display of packets of ribbon 25—25 having binding
50 bands 26—26 surrounding their mid-sections and adapted to be engaged over the tongues or fingers 24—24. It will be understood, however, that any suitable means of supporting merchandise upon the outer surfaces of the body of the display device may be used and that the device
55 is adapted for display of a variety of types of merchandise and articles in a manner particularly adapted to ready inspection and selection.

It will thus be seen that the present invention efficiently attains the objects set forth above and
60 since certain changes may be made in the above construction and different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in
65 the accompanying drawing shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the following claims are intended to cover all of the generic and specific features of the invention herein described, and all statements of the scope of the
70 invention which, as a matter of language, might be said to fall therebetween.

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

75 1. A collapsible display device comprising a

hollow body formed from sheet material having fold lines whereby it may be collapsed to substantially flat form with opposed sides substantially lying adjacent each other, a substantially
5 flat bracing member of relatively rigid sheet material having an edge thereof hinged on the inside of said hollow body and shaped to hold the body in expanded position and movable to permit collapsing of the body, said member being
10 of such shape as to lie wholly within the boundaries of the area of a cross-section of the body taken at the location of the hinge-mounting of the member thereby permitting opposed sides of the body to be flattened adjacent each other with
15 the member lying flat therebetween when the latter is swung out of bracing position, and a suspending member attached at one end to said bracing member and extending to the outside of said body for supporting the same in expanded position.

2. A collapsible display device comprising a hollow body formed from sheet material having fold lines whereby it may be collapsed to substantially flat form with opposed sides substantially
25 lying adjacent each other and having a projecting point, a substantially flat bracing member of relatively rigid sheet material having an edge thereof hinged on the inside of said hollow body and shaped to hold the body in expanded position and movable to permit collapsing
30 of the body, said member being of such shape as to lie wholly within the boundaries of the area of a cross-section of the body taken at the location of the hinge-mounting of the member thereby permitting opposed sides of the body to be flattened adjacent each other with the member lying
35 flat therebetween when the latter is swung out of bracing position, and a suspending member attached at one end to said bracing member and extending to the outside of said body through a hole in the projecting point for supporting the
40 same in expanded position.

3. A collapsible display device comprising a hollow body, formed from sheet material having fold lines whereby it may be collapsed to substantially
45 flat form with opposed sides substantially lying adjacent each other, a substantially flat bracing member of relatively rigid sheet material having an edge thereof hinged on the inside of said hollow body and shaped to hold the body
50 in expanded position and movable to permit collapsing of the body, said member being of such shape as to lie wholly within the boundaries of the area of a cross-section of the body taken at the location of the hinge-mounting of the
55 member thereby permitting opposed sides of the body to be flattened adjacent each other with the member lying flat therebetween when the latter is swung out of bracing position, and a suspending member attached at one end to the
60 portion of said bracing member opposite the portion hinged to the hollow body and extending to the outside of said body for supporting the same in expanded position.

4. A collapsible display device comprising a
65 hollow body of pyramidal shape formed from sheet material having fold lines whereby it may be collapsed to substantially flat form with opposed sides substantially lying adjacent each other, a substantially flat bracing member of relatively rigid sheet material having an edge there-
70 of hinged to the inner surface of one side and shaped to hold said hollow body in expanded position, said member being of such shape as to lie wholly within the boundaries of the area

of a cross-section of the body taken at the location of the hinge-mounting of the member thereby permitting opposed sides of the body to be flattened adjacent each other with the member lying flat therebetween when the latter is swung out of bracing position, a string attached to said bracing member and extending through the vertex of said body for supporting the same in expanded position, and means accessible at the bottom of said body to permit the bracing member to be swung out of bracing position.

5. A collapsible display device comprising a hollow body of pyramidal shape formed from sheet material having fold lines whereby it may be collapsed to substantially flat form with opposed sides substantially lying adjacent each other and having an open bottom, a substantially

flat bracing member of relatively rigid sheet material having an edge thereof hinged to the inner surface of one side and shaped to engage the inner surfaces of all sides of the hollow body when in expanded position, the shape of the bracing member permitting opposed sides of the body to be flattened adjacent each other with the member lying flat therebetween when the latter is swung out of bracing position, a suspending string attached to the portion of said bracing member opposite the portion hinged to the side of said body and extending through the vertex of said body, and a pulling string attached to the first-mentioned portion of said bracing member and accessible through the open bottom.

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