

Jan. 19, 1960

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2,921,692

FOLD FLAT STANDARD BASE AND DISPLAY SHELF

Filed May 13, 1957

2 Sheets-Sheet 1

FIG. 1

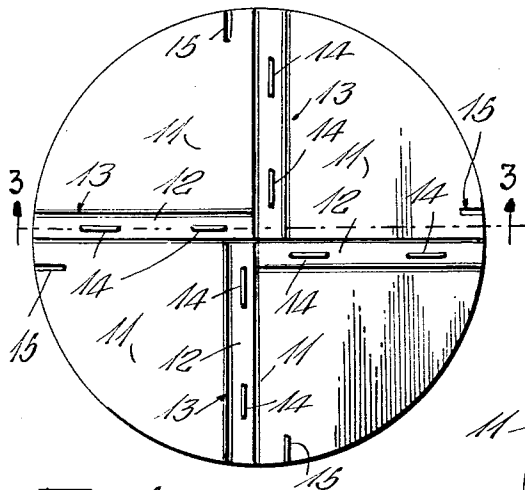


FIG. 2

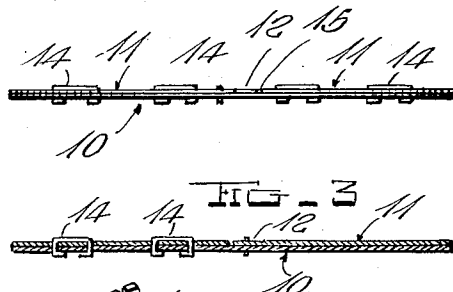


FIG. 11

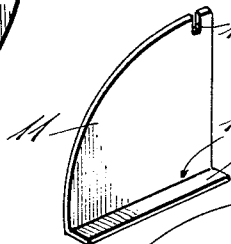


FIG. 4

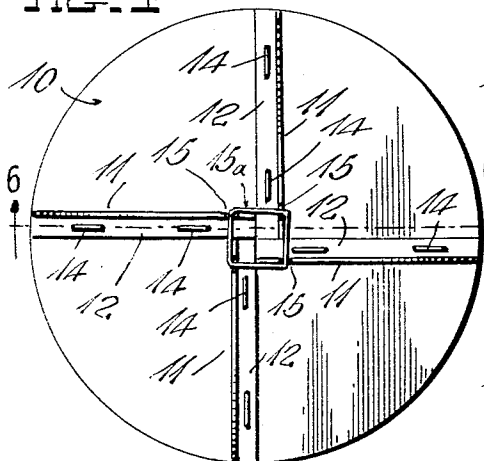


FIG. 5

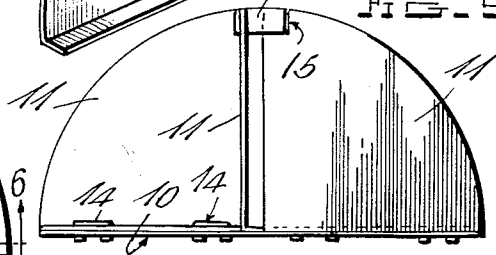


FIG. 6

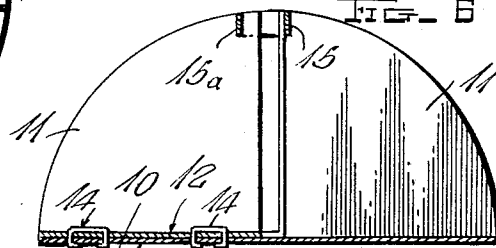


FIG. 8

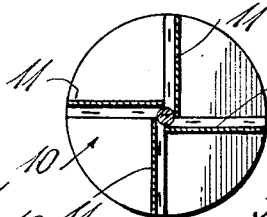


FIG. 10

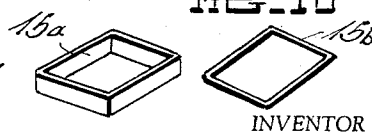


FIG. 7

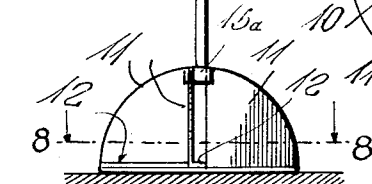


FIG. 9

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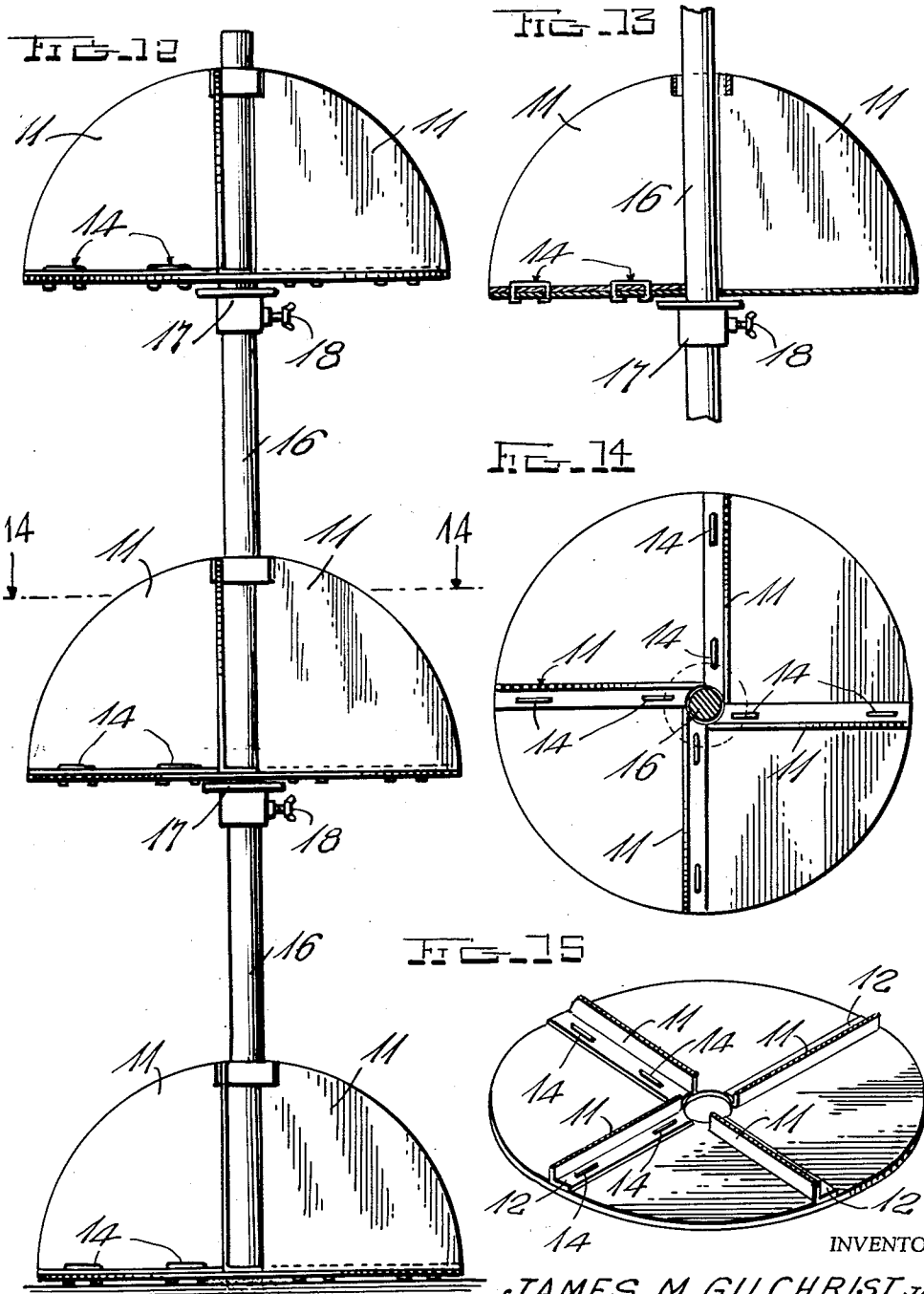
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FOLD FLAT STANDARD BASE AND DISPLAY SHELF

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2 Sheets-Sheet 2



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1

2,921,692

FOLD FLAT STANDARD BASE AND DISPLAY SHELF

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10 Claims. (Cl. 211—135)

This invention relates to holding devices, and more specifically to a standard base and/or display stand having certain new and useful features which will be made clear during the progress of this specification.

Heretofore various devices for holding objects in a vertical position have been proposed, but these have contained many drawbacks, such as cost of manufacture, difficulty of storage when not in use, complexity of assembly, et cetera.

An object of this invention is to provide a standard base which folds flat when not in use, thereby avoiding storage problems.

Another object is to provide simplicity of structure in such a device.

Another object is to make possible economy of manufacture in a base of the instant type.

A still further object is to provide an attractive and ingenious display stand through the assembly or mounting of a plurality of such devices into a composite structure.

These and other objects made apparent hereafter are accomplished by means of my improved base and display shelf, a full understanding of which is facilitated by reference to the drawings herein, in which:

Fig. 1 is a top plan view with the wings in folded or down position;

Fig. 2 is a side or edge view of the structure of Fig. 1;

Fig. 3 is a vertical sectional view taken along the line 3—3 of Fig. 1, looking in the direction of the arrows;

Fig. 4 is a plan view of the device with the wings up and the wing holding or anchoring element in place;

Fig. 5 is a side view of the structure of Fig. 4;

Fig. 6 is a vertical sectional view taken along the line 6—6 of Fig. 5;

Fig. 7 is a side view in reduced scale showing my standard base in assembled position and carrying a flag pole and flag;

Fig. 8 is a view in horizontal cross-section taken along the line 8—8 of Fig. 7, looking in the direction of the arrows;

Fig. 9 is a view in perspective of one form of wing securing or anchoring means suggested herein, such being essentially in the form of a substantially square band;

Fig. 10 is a similar view of another such element formed from wire;

Fig. 11 is a view in perspective of one of the instant wing units separated from the rest of the base;

Fig. 12 is a side view of a plurality of the said bases so mounted on a central standard as to form a display stand;

Fig. 13 is a view partially in vertical cross-section and illustrating the mounting of one of the instant bases in its display shelf adaptation;

Fig. 14 is a view in horizontal cross-section taken along the line 14—14 of Fig. 12; and

Fig. 15 is a horizontal cross-sectional view in perspective of the bottom or under-base taken immediately above the wings which are in a raised position.

2

Referring now to the drawings, Figs. 1 and 2, the numeral 10 designates the under-base of the holder, which may be of any suitable shape or contour, although the circular form shown has been found suitable or even preferable, said member being fabricated of a material with strength and other characteristics in keeping with the use for which a given standard is intended. Semi-rigid material such as corrugated pasteboard has been found susceptible to a wide variety of applications, although in some cases a lighter substance such as shirt-board for example has been found appropriate. In other cases a fully rigid material may be indicated.

A plurality of wing-like members 11 are hinged mounted to base 10, the arrangement illustrated in the drawings embodying a self-flap 12 formed by a crease or bendure 13 in 11 and firmly mounted to 10 through conventional staples 14. It will be noted that the principle here-involved represents the employment of an off-center location of the hinges fastening the wings to the underbase, so positioned, either to the right or to the left of center that when the wings are raised to a vertical position they form a partly open (about one-half) square above the center of the underbase. The dimensions of this opening may be predetermined to accommodate an upright of any diameter at its butt.

This is particularly true when the wings are formed of rigid material and something in the nature of a conventional hinge (not shown) used to anchor the wings to the base, a wide degree of flexibility in adjusting the size of the central aperture then being readily achieved.

The wings may be locked in vertical position by adjusting a square or round hoop 15a or 15b of metallic material of either flat or round contour (Figs. 9 and 10) into slots 15 formed into the upper portions of said wings; or other means may be employed to effect this purpose.

The shape of said wings is of course a matter of choice as long as such are adapted to the practice of the principles illustrated herein. This is likewise true of the materials employed to fabricate such, the same general considerations applying here as in the case of the under-base.

Figs. 12 to 15, inclusive, are illustrative of a modification of the instant invention in which a plurality of standards of the type described heretofore are mounted on a suitable supporting element such as shaft 16 at spaced intervals by means of collar-like devices 17 which are held in place on 16 by winged set-screws 18, an attractive and practicable display stand thereby being provided in which the shelves thereof are freely rotatable, the entire device highly flexible, and many other advantages inherent therein.

Any appropriate holding members may of course be employed to adjust the standards or shelves to the center supporting instrumentality instead of collars 17 as shown, it only being necessary that the desired spacing and firm positioning be attained.

Likewise, the size of the standards employed may be varied beyond the uniform dimensions illustrated, as for example, a tapering arrangement may be utilized as by decreasing said dimensions as progressive mountings occur upwardly, this contributing both to eye appeal and the balance of the entire structure.

The number of shelves thus employed will depend upon the exigencies of a given situation, such as space requirements, strength of materials, and other factors; and is limited only by the practicalities.

From the foregoing it will be apparent that the instant standard represents an economical and ingenious standard base that may be folded when not in use, yet which is readily and easily assembled. That such is susceptible of a wide variety of uses, is simple, convenient, attractive,

and fully adapted for its intended purposes. That a modification in which said bases are combined into a display stand has likewise been disclosed, which stand is likewise economical to manufacture, easy to assemble, and highly desirable from a commercial standpoint.

While I have shown and described the foregoing in considerable detail insofar as one form thereof is concerned, it is understood that I do not intend to limit myself thereby, but on the contrary, intend that the appended claims shall be accorded an interpretation and scope fairly in keeping with the contribution to the art.

I claim:

1. In a device of the character described, an under-base member, a plurality of wing-like elements hingedly mounted to said base in off-center relationship thereto and diagonally to one another at their tops, and means for securing said wings in vertical position with reference to said base when in raised position, whereby a hollow socket is formed adjacent the base-center for supporting a standard or the like.

2. In a device of the character described, an under-base member, a plurality of wing-like elements hingedly mounted on said base in off-center relationship thereto and diagonally to one another at their tops, whereby a hollow socket is formed adjacent the center of the base for supporting a shaft, slots formed adjacent the tops of said wings, and a continuous anchoring member inserted in said slots for maintaining the wings in an upright position.

3. In a device of the character described, an under-base member, a plurality of wing elements, self-flaps formed therein, means for anchoring said wings in off-center relationship on said base through said self-flaps and diagonally to one another at their tops, and means for securing said wings in upright position and at right angles to said base.

4. In a device of the character described, an under-base member, four wing-like elements hingedly mounted thereon in off-center relationship same lying flat when in folded position, and means for securing said wings in a vertical plane when in raised or operative position.

5. In a device of the character described, an under-

base member, a plurality of wing members hingedly mounted thereon in off-center relationship to the middle thereof, vertical slots near the top outer edges of the wings, and continuous retaining elements having flat surfaces inserted in said slots for the purpose of retaining the wings in fixed upright position when elevated from said base.

6. In a device of the character described, a base element, a plurality of wings hingedly mounted thereon in off-center relationship and diagonally to one another at their tops, whereby a central socket of predetermined dimensions is formed adjacent the center of the base and at right angles thereto, anchor receiving means formed in said wings, and means cooperating therewith for securing the wings in fixed vertical position when in use.

7. A plurality of holding devices such as recited by claim 1 mounted upon a central shaft to form a display stand.

8. A plurality of devices as set forth in claim 2 spacedly mounted upon a shaft to form a display stand.

9. A plurality of devices as claimed in claim 3 spacedly and revolvably mounted upon a central shaft to form a display stand.

10. A plurality of devices such as set forth in claim 4 spacedly mounted upon a central supporting element to form a display stand.

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