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3,207,462

PEDESTAL ASSEMBLY

Filed June 1, 1962

4 Sheets-Sheet 1

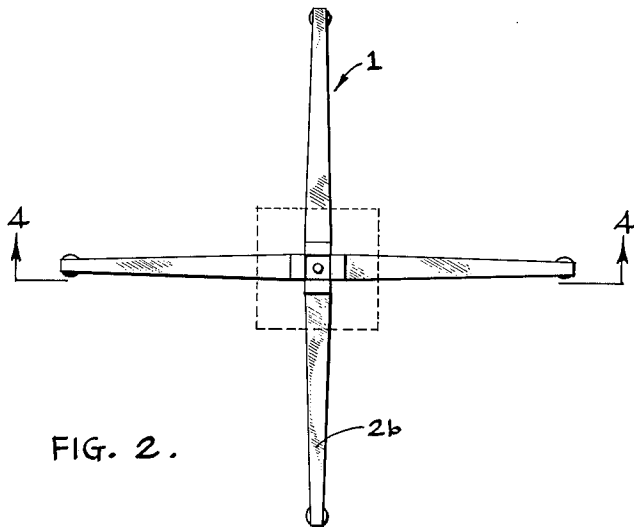


FIG. 2.

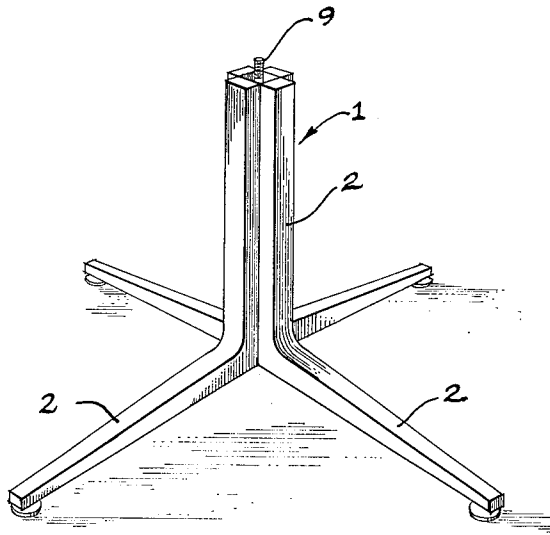


FIG. 1.

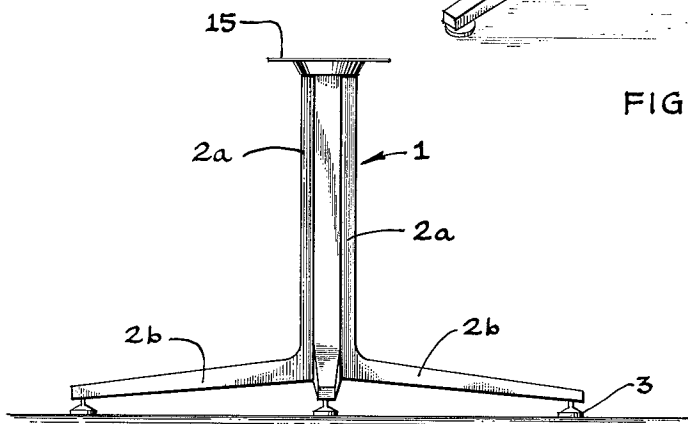


FIG. 3.

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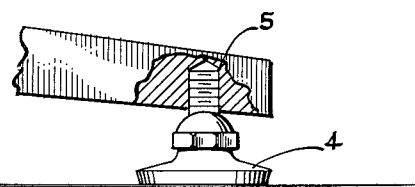
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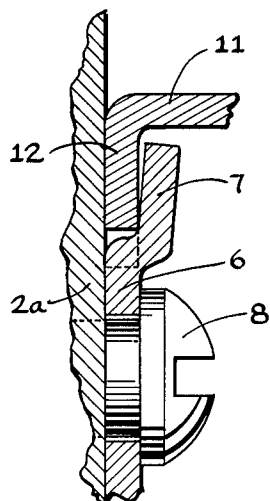


FIG. 6.

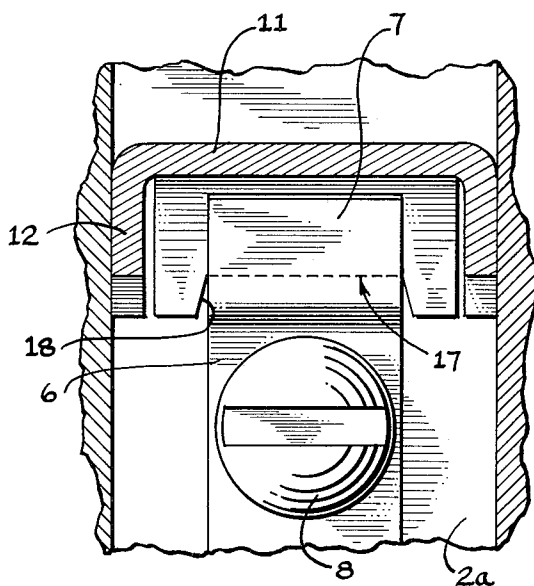


FIG. 7.

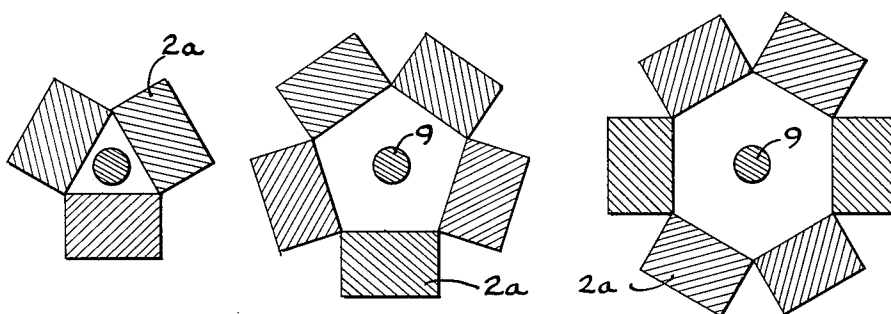


FIG. 8.



FIG. 9.

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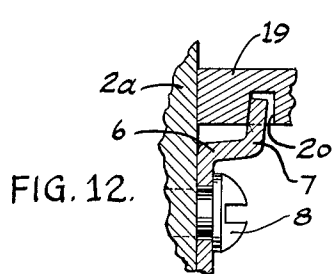


FIG. 12.

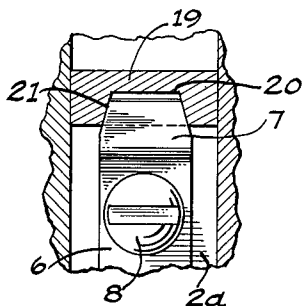


FIG. 11.

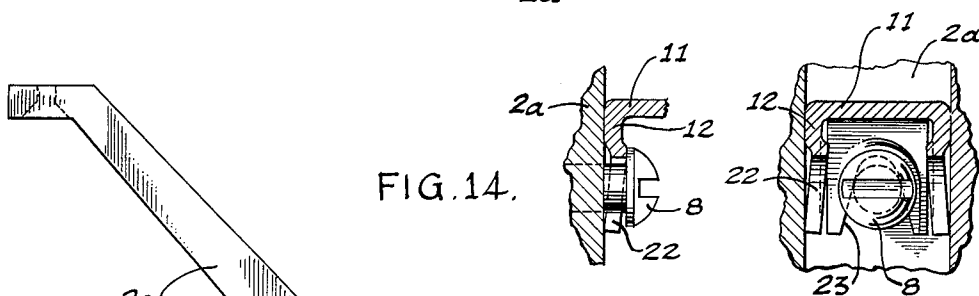


FIG. 14.

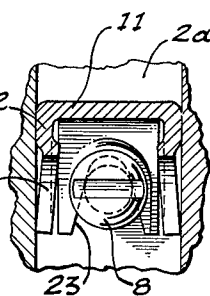


FIG. 13.

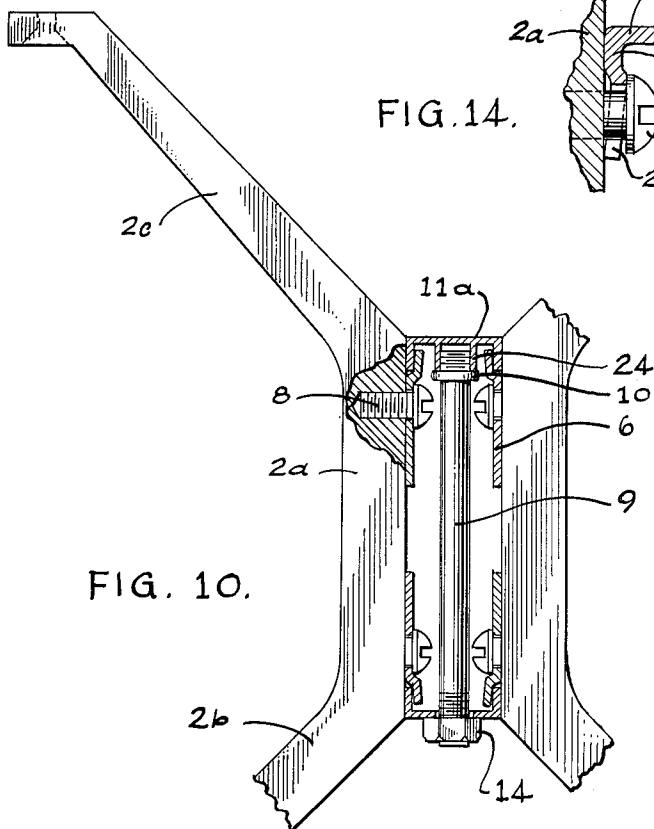


FIG. 10.

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PEDESTAL ASSEMBLY

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2 Claims. (Cl. 248—159)

This invention relates generally to furniture pedestals and more particularly to a pedestal assembly employing a plurality of similar pedestal segments joined into a unitary pedestal structure.

One object of the present invention is to provide an improved pedestal easily assembled from a plurality of similar durable and inexpensive pedestal segments and easily disassembled for shipment, storage and the like.

Another object of this invention is to provide a combination of similar pedestal segments and improved means for joining them into a rigid unitary pedestal structure.

Still another object of the present invention is to provide improved means for connecting a pedestal mounting plate to the pedestal column.

Another object of this invention is to provide a pedestal having a central column and the several pedestal arms formed from a plurality of individual single piece column and arm segments without visible means of connection.

One other object of the present invention is to provide a minimum inventory of interchangeable pedestal components for arrangement into any one of a variety of pedestal clusters.

Other objects and advantages of the present invention will become apparent from the following description of a specific embodiment of the invention considered in connection with the accompanying drawings wherein

FIG. 1 is a perspective view of a four segment pedestal having features of the present invention;

FIG. 2 is a top plan view of the pedestal of FIG. 1 with assembled mounting plate shown in dashed lines;

FIG. 3 is a side elevational view of the pedestal of FIG. 2;

FIG. 4 is an enlarged side elevational view of the pedestal partially in section and taken along line 4—4 of FIG. 2;

FIG. 5 is an enlarged perspective view of the means for joining the several pedestal segments with portions of the segments broken away for clarity of illustration;

FIG. 6 is an enlarged side elevational view of the anchor clips of the present invention;

FIG. 7 is an enlarged front elevational view of the anchor clips and anchor caps illustrating the segment alignment and the locking notch;

FIG. 8 is a horizontal sectional view taken through the column of three, five and six segment pedestals, respectively;

FIG. 9 illustrates several cross sectional configurations which may be employed in the pedestal segments of the present invention;

FIG. 10 illustrates a modified pedestal segment design and an anchor cap useful with it;

FIG. 11 is an elevational view of a modified anchor cap and anchor clip structure;

FIG. 12 is a sectional view of the structure illustrated in FIG. 11;

FIG. 13 illustrates a modified anchor cap useful with corresponding pin type anchor means; and

FIG. 14 is a cross sectional view of the structure illustrated in FIG. 13.

The described pedestal assembly 1 includes a plurality of pedestal segments, referred to generally as 2. These pedestal segments are generally L-shaped having an upwardly extending portion 2a forming part of the pedestal column and a horizontal portion 2b forming the arms of the pedestal. Each segment is fabricated from relatively

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rigid material, such as wood, metal, plastic and the like and may be formed in a variety of cross sections and dimensions varying as a function of the pedestal loading and the particular visual effect desired. The individual column height and arm lengths may be varied within wide limits. Several segment cross sections for both the arm and column portions are illustrated in FIG. 9. Modified pedestal segments, as shown in FIG. 10, having attachment means 2c extending to the supported structure also are within the scope of the present invention.

Each of the arm portions of the several pedestal segments carries a foot 3. The illustrated foot in FIG. 4 comprises a threaded foot 4 fitting into a tapped hole 5 at the extremity of each segment arm portion 2b. Other foot designs also are useful.

Generally, three or more of the described pedestal segments are joined together into a unitary pedestal structure by improved connecting means employing a threaded tie rod. The top and bottom ends of the column portion 2a of each pedestal segment 2 carry anchor means such as an anchor clip 6 appearing most clearly in FIGS. 4, 5. Each clip has an offset flange 7 opening upwardly on the upper clips and downwardly on the lower clips. Threaded fasteners 8 secure the anchor clips to the pedestal segments. The anchor means also may be welded, brazed, glued or otherwise secured to the pedestal column portion 2a, or they may be formed as an integral part of the pedestal segment itself.

The pedestal segments forming the assembled pedestal are joined by connecting means including a tie rod 9 having threaded ends. The top end of the tie rod carries a stop flange 10 at the inner end of its threaded portion. The stop flange 10 may be threaded onto the tie rod or formed as an integral part of the rod. A top anchor cap 11 having anchor receiving means comprising upset marginal edges and having a pierced and threaded center hole threads onto the tie rod to abut stop flange 10. The upset edges of the top anchor cap 11 are formed into a plurality of separated tabs 12, one for each pedestal segment to be joined. These tabs fit between the flange of one of the anchor clips 6 carried on the pedestal segment and the segment itself, as illustrated in FIGS. 4-7. There are as many tabs on each anchor cap as there are pedestal segments to be joined into the particular pedestal assembly.

The tie rod and its top anchor cap first are assembled and the upset tabs of the cap then inserted into the flanges of the anchor clips of the several pedestal segments to be joined. A similar bottom anchor cap 13 having a pierced center hole and similar upset tabs 12 fits loosely upon the tie rod 9 and engages each of the lower anchor clips 6 of the several pedestal segments.

A nut 14 threaded on the lower end of the tie rod 9 secures the bottom anchor cap and the several pedestal segments into an integral pedestal assembly. By tightening nut 14 the bottom anchor cap and the top anchor cap are drawn together; the caps firmly seat in the mating anchor clips; and their appurtenant pedestal segments thus are clamped firmly together and restrained from movement in any direction.

A mounting plate or swivel 15 fits loosely on the upper end of the tie rod and is secured in place by a second nut 16. The plate itself also can be threaded. The plate bears against the top ends of the several pedestal segments and provides means for fastening the pedestal to whatever it is to support.

It will be observed in FIG. 6 that the offset flange 7 of each of the anchor clips 6 lies at a slight angle with respect to the pedestal column to which it is secured to facilitate insertion of the anchor cap tabs 12, as well as to draw and clamp the pedestal columns against the tabs 12 as the anchor caps are drawn together. The base of the flange is spaced from the pedestal column a distance ap-

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proximately equal to the thickness of the inserted tabs 12. The upset tabs 12 of each of the anchor caps have a segment alignment and locking notch 17 cut into the outer edge of the tab. These notches 17 have converging sides 18 limiting the bottom of the notch to substantially the same width as that of the several anchor clips. The notches 17 fix the anchor clip spacing around the cap periphery to properly align the pedestal segments.

With the pedestal segment design of FIG. 10, the top anchor cap 11a carries a drilled and tapped boss 24 for receiving the threaded end of tie rod 9. The drilled hole does not extend through the cap. The modified cap in all other respects is identical to that of FIGS. 4-7.

FIGS. 11-14 illustrate modified anchor cap and anchor clip combinations. The anchor cap 19 of FIGS. 11-12 comprises a formed disk having anchor receiving means comprising divergent slots 20 which seat upon the offset flanges 7 of anchor clips 6. These slots are canted at approximately the same angle as flanges 7 and are spaced around the periphery of the anchor caps to perform the same functions as tabs 12 described in connection with FIGS. 4-7. In this modified combination the flanges 7 have beveled extremities 21 to assist seating in slots 20 of similar shape.

The anchor caps also may be designed as illustrated in FIGS. 13-14 for use with pin-type anchor means rather than formed anchor clips. The upset tabs 12 of the described cap carry an offset flange 22 canted slightly outwardly from the center of the cap in the same manner as do the flanges 7 carried on the anchor clips described in connection with FIGS. 4-7. These flanges 22 each have a generally V-shaped notch 23 at the center of the outer margin to receive anchor means on the pedestal segments such as a pin or screw 8. The flanges 22 seat upon the anchor means or screws 8 in a manner similar to the described seating on anchor clips 6.

Thus, by rigidly joining any number of pedestal segments a variety of useful as well as visually attractive pedestal designs can be fabricated from a combination of the standard parts described. The described pedestals are easily assembled and disassembled permitting easy storage and shipment. FIG. 8 illustrates the wide variety of pedestal cluster arrangements which may be formed simply by employing top and bottom anchor caps each having three or five or six or more upset tabs to interlock the anchor clips of the particular number of pedestal segments employed.

The foregoing embodiments of the present invention have been given for illustrative purposes only and no unnecessary limitations should be understood therefrom for various and other modifications will be apparent to those familiar with this art. The invention is defined in the appended claims.

I claim:

1. A pedestal assembly comprising a plurality of pedestal segments each having a column portion; a pair of anchor clips mounted on the column portion of each segment, one clip carried at the top and one at the bottom of said column portion and each clip having an offset flange diverging slightly from said column portion to define a seat between said flange and said column portion which opens away from the other clip of said pair; a first anchor cap insertable into the several seats defined by

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the anchor clips at the top of said segments; a second anchor cap insertable into the several seats defined by the anchor clips at the bottom of said segments; each of said anchor caps including a polygonal web having peripheral faces at least equal in number to said plurality of segments, a separate tab contiguous with each face of said web upset to one side of the plane of said web, and an alignment and locking notch formed on the outer margin of each tab having sides convergent toward the bottom of said notch, the thickness of each tab being slightly greater than the minimum offset spacing between said flange and said segment and the bottom of each notch being approximately as wide as said flange; and means interconnecting said anchor caps for drawing said caps together to insert each tab of said anchor caps into a corresponding one of said seats defined by said anchor clips thereby drawing the column portions of said pedestal segments against and centering them on the peripheral faces of said anchor caps.

2. A pedestal assembly comprising a plurality of pedestal segments each having a column portion; a pair of anchor clips mounted on the column portion of each segment, one clip carried at the top and one at the bottom of said column portion and each clip having an offset flange diverging slightly from said column portion to define a seat between said flange and said column portion which opens away from the other clip of said pair; a first anchor cap insertable into the several seats defined by the anchor clips at the top of said segments; a second anchor cap insertable into the several seats defined by the anchor clips at the bottom of said segments; each of said anchor caps including a polygonal web having peripheral faces at least equal in number to said plurality of pedestal segments, alignment and locking notches formed in one surface of said web near each face and having sides convergent toward the bottom of said notch, the marginal portions of said web between each notch and the nearest face being slightly greater than the minimum offset spacing between said flange and said column portion and the bottom of each notch being approximately as wide as said flange; and means interconnecting said anchor caps for drawing said caps toward each other to insert each marginal portion of said anchor cap webs in a corresponding one of the seats defined by said anchor clips thereby drawing the column portions of said pedestal segments against and centering them on the peripheral faces of said anchor caps.

References Cited by the Examiner

UNITED STATES PATENTS

469,358	2/92	Nesson	108-154
1,153,946	9/15	Ohnstrand	248-188 X
1,694,617	12/28	Brown	248-188.7
2,055,761	9/36	Gerschefski	248-165
2,853,261	9/58	Loeb	248-188
2,916,241	12/59	Bischof	248-188

FOREIGN PATENTS

815,865	7/59	Great Britain.
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