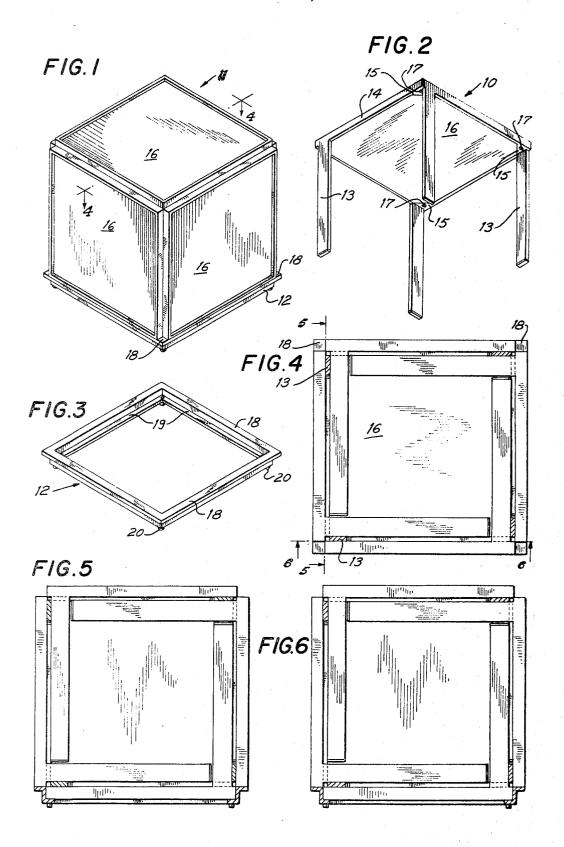
P. O. HEYER

NESTABLE STOOLS

Filed June 16, 1967



1

3,430,588 NESTABLE STOOLS
Paul O. Heyer, 531 E. 81st St., New York, N.Y.
Filed June 16, 1967, Ser. No. 652,647 10028 U.S. Cl. 108-91 4 Claims 5 Int. Cl. A47b 7/02; A47c 3/04

ABSTRACT OF THE DISCLOSURE

This invention relates to six identical stools each having four legs disposed in a pinwheel sequence, said stools being nestable to form a cube. Also, a base or tray for the cube may be provided to keep the cube furniture away from the floor surface.

Nestable tables forming a cube are known to the prior art but the construction thereof does not require six identical stools or tables, so that the nesting procedure must follow a predetermined coded plan or system.

This invention uses identical stools so that no coding or numbering of the stools is required as in the prior art.

This invention is illustrated in the accompanying drawing of an embodiment thereof and in which;

FIG. 1 is a perspective view of the assembled cube disposed upon a base or tray,

FIG. 2 is a bottom perspective view of a single stool, FIG. 3 is a perspective view of a tray for holding the assembled cube away from the floor,

FIG. 4 is a section view taken on line 4—4 of FIG. 1, FIG. 5 is a section view taken on line 5-5 of FIG. 4, and

FIG. 6 is a section view taken on line 6—6 of FIG. 4. The embodiment shown herein is made of metal, preferably of steel, having a laminated wood panel secured thereto by screws. However, the stools may be made of lightweight alloys such as the magnesium or aluminum alloys or it may even be made of wood. Also, the stools are provided with square cushions which are stored within $_{40}$ the cube before inserting the final stool to form the closed cube.

An important feature of this invention is the disposing of the legs of said stools in a successive sequence or pinwheel fashion, so that each leg is located around the corner from its previous leg. Where flat or planar legs are used, the planes of the successive legs are perpendicular to one another.

Turning to the drawing, a plurality of four legged stools 10 are assembled in a nested configuration to form 50 a cube 11 adapted to be disposed on a base or tray 12.

The individual stools 10 of this invention are identical, so that they are interchangeable in the nesting procedure, an important feature of this invention, since it results in an easy and rapid nesting of the stools into a cube.

The metal work of the stools are preferably of integral or one-piece construction, with the legs 13 being welded to the square frame 14. The frames 14 are provided with welded in place triangular plates 15 in each of the corners at the frame bottom.

A square panel 16, preferably of laminated wood, of suitable thickness is disposed on the four triangular plates 15 and is secured thereto by wood screws 17. As shown in FIG. 1, the top surface of panel 16 is disposed below the top edge of frame 14 so that a suitable square cushion 65 (not shown) of foam rubber or the like, having the dimensions of the panel 16 may be placed on said panel and immovably against the recessed sidewalls of the frame.

In order to keep the nested cube away from the floor, a square tray 12 having a square recess adapted to re- 70 297-239 2

ceive a square frame 14 is used. The tray 12 is provided with a top square horizontal planar ledge 18 and with an inner square ledge 19 adapted to receive a square frame 14 with the bottom surface of the panel being in flush or planar relationship to the ledge 18 of tray 12.

The tray 12 is preferably of frame construction and is provided with a central aperture. Footings 20, preferably of plastic, are secured at each corner by screws. In lieu of footings 20, casters may be used to give the tray and the cube thereon easy mobility.

In nesting the stools 10 onto the tray 12, a first stool is disposed on the ledge 19 with its legs 13 disposed upwardly. A second stool 10 is then inserted so that its legs are at a right angle to the upright legs of the first 15 stool. The edge 14 of the second stool rests on the edge 18 of the tray with the flat side of a leg 13 resting on the underside of the panel 16 of the first stool. Next a third stool is inserted, preferably in opposed relationship to the second stool. Next a fourth stool is inserted in one of the remaining two open sides. Then the fifth stool is inserted opposite to the fourth stool. Now the cushions are placed on the panel 16 of the first stool in the cavity formed by the other four stools. Lastly, the sixth or top stool is inserted opposite the first stool to close the cavity and thus form the cube (FIG. 1).

Since the individual stools can be nested legwise in but one manner relative to one another due to the pinwheel construction, it is possible to nest the stools in place in only one way. In other words, it is impossible to nest the stools wrongly since the legs of adjacent stools slide past one another in only one manner. Thus the sections in FIG. 4, FIG. 5 and FIG. 6 of the cube are

This invention uses only identical stools. Of course, the stools in the absence of cushions can be used as a set of six tables. Clearly, this invention is of a broad scope and is not limited to the illustrations shown and described

herein. I claim:

1. A furniture cube formed from six identical stools, each stool comprising a top frame and four depending legs, said frame having a square configuration, and said legs secured to said frame adjacent a corner thereof in a successive pinwheel sequence.

2. A composite cube formed from six identical stools, each stool having a square top frame, each side of which is provided with a depending leg adjacent a respective corner, said legs being disposed in a successive pinwheel manner whereby said cube is assembled in only one way.

3. The cube of claim 2 comprising a square tray having a square recessed ledge therein adapted to receive a stool frame of said cube.

4. The cube of claim 3 comprising legs of planar con-55 struction.

References Cited

UNITED STATES PATENTS

	1,660,119	2/1928	Decker 297—233
30	2,540,849	2/1951	Walker 108—91
	3,205,839	9/1965	Norreklit 108—91
	3,347,186	10/1967	Khattar 108—91

FOREIGN PATENTS

473,881 3/1929 Germany.

FRANCIS K. ZUGEL, Primary Examiner.

U.S. Cl. X.R.