KNOCKDOWN CABINET STRUCTURE
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Filed Aug. 8, 1958, Ser. No. 753,931
4 Claims. (Cl. 312—257)

The present invention relates to furniture generally, and in particular to a knockdown cabinet structure.

An object of the present invention is to provide a cabinet structure in a knockdown condition for assembly by the user or purchaser thereof.

Another object of the present invention is to provide a cabinet structure in knockdown form which lends itself to ready and easy erection and assembly, one which may be stored in compact form in the knockdown condition, and which is highly attractive when erected.

A further object of the present invention is to provide a cabinet structure which is simple in structure, sturdy in construction, and one which is economically feasible.

These and other objects and advantages of the present invention will be fully apparent from the following description when taken in conjunction with the annexed drawings, in which:

FIGURE 1 is an isometric view of the cabinet structure in assembled condition.

FIGURE 2 is an isometric view showing the first step in the assembly of the cabinet structure of the present invention.

FIGURE 3 is an isometric view showing a further step in the assembly of the cabinet structure.

FIGURE 4 is a fragmentary isometric view showing the locking means for the legs of the cabinet structure.

FIGURE 5 is a view, on an enlarged scale, taken on the line 5—5 of FIGURE 1.

FIGURE 6 is a view, on an enlarged scale, taken on the line 6—6 of FIGURE 1.

FIGURE 7 is a detail fragmentary view, on an enlarged scale, taken on the line 7—7 of FIGURE 5, and FIGURE 8 is a view taken on the line 8—8 of FIGURE 7.

Referring in greater detail to the drawings in which like numerals indicate like parts throughout the several views, the knockdown cabinet structure according to the present invention comprises a plurality of legs 10, here shown as four in number, each leg 10 having a threaded pin 12 projecting from the upper end and having a reduced portion 14 providing a shoulder 16 inwardly of and spaced from the lower end.

The present invention provides a flat top 18 having spaced side edges 20 and 22, and end edge 24 extending between one of the ends of the side edges 20 and 22 and another end edge 26 extending between the other ends of the side edges 20 and 22.

A socket 28 having internal threads is provided at each of the juncture points of the end edges 24 and 26 with the adjacent ends of the side edges 20 and 22, each socket 28 opening inwardly from the under face of the top 18, and being of a size to receive the pin 12 of the adjacent leg 10.

A flat bottom 30 provided with spaced side edges 32 and 34 and end edges 36 and 38 extending between the adjacent ends of the side edges 32 and 34 is positioned so that the reduced portions 14 of the legs 10 extend through openings 40 provided in the bottom 30, the openings 40 being at the juncture points of the end edges 36 and 38 with the adjacent ends of the side edges 32 and 34. The upper face of the bottom 30 bears against the shoulders 16 and the legs 10.

A releasable wedge pin 42 is carried in a transversely arranged hole 44 in each of the legs 10 and bears against the under face of the bottom 30 for holding the bottom 30 in position on the legs 10.

A panel 46 extends between the side edges 22 and 32 of the top 18 and bottom 30, respectively, and other panels 48 and 50 extend between the complementary end edges 24 and 36, 26 and 38 of the top 18 and bottom 30, respectively. A pair of half panels 52 and 54 extend between the complementary side edges 20 and 32 of the top 18 and bottom 30 and cooperating mounting means is provided on the upper and under faces of the top 18 and bottom 30 for holding the panels and half panels in position between the top 18 and bottom 30.

This cooperating mounting means consists in a groove 56 extending along each of the side edges and end edges of the top 18 and bottom 30 with the one side edge 20 of the top 18 and the one side edge 32 of the bottom 30 having a second groove 56' arranged in parallel spaced relation with respect to the groove 56. The half panels 52 and 54 are slidable, one upon the other.

Preferably, the top 18 and bottom 30 are each fabricated of suitable rigid sheet material, such as plywood or the like, with a reinforcing member 58 extending around a perimeter of each of the top 18 and bottom 30.

In use, the knockdown cabinet structure of the present invention is assembled by first embracingly engaging each pin 12 in one of the sockets 28 by manually threading the pin 12 into such socket until the respective leg 10 is tight, as shown in FIGURES 2 and 3. This secures the legs 10 to the top 18 and next, the bottom 30 is placed upon the inverted legs 10 so that its upper surface rests against the shoulders 16 on the legs 10.

The side panels and end panels are inserted into the facing grooves 56, 56' in the top 18 and bottom 30 before the bottom 30 is secured in place by the wedge pins 42 in each leg 10. The facing grooves in the one side edge of the top and bottom permit the sliding movement of the half panels 52 and 54, one over the other, to expose one-half of the interior of the cabinet structure, as desired.

The cabinet structure may be dismantled for storage or transport with ease and facility and when dismantled, forms a compact package occupying little space and lending itself to effective merchandising as a knockdown structure.

What is claimed is:
1. In a knockdown cabinet structure, a plurality of legs each having a pinlike projecting from the upper end and having a shoulder inwardly of and spaced from the lower end, a flat top having spaced side edges and an end edge extending between adjacent ends of the side edges, there being a socket in said top at each of the juncture points of the end edges with the adjacent ends of said side edges and opening inwardly from the under face of said top, said legs being disposed so that the pin-tiles extend into and are embracably held within said sockets, a flat bottom having spaced side edges, and an end edge extending between adjacent ends of the side edges, and being provided with an opening at each of the juncture points of the end edges with the adjacent ends of said side edges, said bottom being disposed so that the lower end portions of said legs extend through the openings with the upper face of the bottom bearing against the shoulders, and a releasable wedge pin carried by each of said legs and bearing against the under face of said bottom for holding the bottom in position on said legs.
2. In a knockdown cabinet structure, a plurality of legs each having an externally threaded pinlike projecting from the upper end and having a shoulder inwardly of and spaced from the lower end, a flat top having spaced side edges and an end edge extending between adjacent ends of the side edges, there being an internally
threaded socket in said top at each of the juncture points of the end edges with the adjacent ends of said side edges and opening inwardly from the under face of said top, said legs being disposed so that the pinnles are in threaded engagement with the sockets of said sockets so as to be embracedly held within said sockets, a flat bottom having spaced side edges, an end edge extending between adjacent ends of the side edges, and being provided with an opening at each of the juncture points of the end edges with the adjacent ends of said side edges, said bottom being disposed so that the lower end portions of said legs extend through the openings with the upper face of the bottom bearing against the shoulders, and a releasable wedge pin carried by each of said legs and bearing against the under face of said bottom for holding the bottom in position on said legs.

5. In a knockdown cabinet structure, a plurality of legs each having a pinnle projecting from the upper end and having a shoulder inwardly of and spaced from the lower end, a flat top having spaced side edges and an end edge extending between adjacent ends of the side edges, there being a socket in said top at each of the juncture points of the end edges with the adjacent ends of said side edges and opening inwardly from the under face of said top, said legs being disposed so that the pinnles extend into and are embracedly held within said sockets, a flat bottom having spaced side edges, and an end edge extending between adjacent ends of the side edges, and being provided with an opening at each of the juncture points of the end edges with the adjacent ends of said side edges, said bottom being disposed so that the lower end portions of said legs extend through the openings with the upper face of the bottom bearing against the shoulders, a releasable wedge pin carried by each of said legs and bearing against the under face of said bottom for holding the bottom in position on said legs, a panel extending between said top and bottom adjacent each of the complementary side and end edges of said top and bottom, and cooperating mounting means embodying facing grooves on the under face of said top and the upper face of said bottom adjacent each of the complementary side and end edges of said top and bottom for holding the panels in position between said top and bottom.

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