KNOCKDOWN METAL TABLE


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9 Claims. (Cl. 311—1)

This invention relates to what might be generally referred to as wrought iron tables. More particularly, the invention deals with tables of this type and kind adapted for porch and outdoor uses, wherein the table is composed of detachably coupled parts, comprising a top table frame part, four similar leg members and a bottom leg brace and coupling part, whereby the complete table can be compactly packed in a relatively thin container of dimensions corresponding to peripheral dimensions and thickness of the table top frame. The novel features of the invention will be best understood from the following description when taken together with the accompanying drawing, in which certain embodiments of the invention are disclosed, and in which the separate parts are designated by suitable reference characters in each of the views; and in which:

Fig. 1 is a side view of a table made according to my invention, with parts of the construction only partially indicated.

Fig. 2 is an end view similar to Fig. 1.

Fig. 3 is a plan view of the table indicating part of a transparent table slab arranged in one corner of the table top frame.

Fig. 4 is an exploded perspective view showing diagrammatically one corner portion of the table top frame, the upper part of a leg for attachment thereto, also illustrating the bolt and nut structure in making one of the attachments of the leg with the table top frame, and also omitting the filigree or ornamental work of the table top frame to simplify the illustration.

Fig. 5 is a section on the line 5—5 of Fig. 1, on an enlarged scale, and illustrating the assemblage of a leg with a corner of the table top; and

Fig. 6 is a perspective view of a container diagrammatically showing in dotted lines the arrangement of the table parts within the container, in storage, packaging, or shipment thereof.

In constructing wrought iron or similar metal tables for porch, lawn, playroom and other uses, it has been customary to construct a complete assembly unit of the table, which has necessitated complications in storage, packaging and shipment of the complete assemblage. Further it has often resulted in damage to the table in shipment and handling thereof.

It is the purpose of my invention to provide a knockdown structure of the class under consideration wherein the complete table may be packed in a relatively small package or container, the size of which is governed by the length, width and height of the table top frame. By reason of this construction, a greater number of table units can be stored in the space normally occupied by one completely constructed table, and further the table is protected in shipment and transportation. Still further, a convenient means is provided for storage of the table in the home between seasons and when the same is not in use.

In the drawing I have shown at 10 a top table frame part or section. At 11 I have shown four leg parts or sections, each of which is of the same construction, and for this reason, one reference character is used on each of these parts. At 12 I have shown a leg brace or coupling section.

The table top part or section 10 is composed of top and bottom rectangular frames 13 and 14 joined and spaced by L-shaped corner posts 15, the top frame is angle iron or L-shaped in cross sectional form, in other words, includes an upper horizontal part 16 and an outer vertical part 17.

The frame 14 consists of flat vertically arranged strips, both of these frames are welded or similarly secured to the corner posts, the top part 16 having abutting corners bevelled or abutting, as indicated at 18, note Fig. 4 of the drawing.

Secured to the corner portions of the top frame 13 are L-shaped table top retaining cleats 19 having raised flange portions 20 adapted to retain a transparent table top 21 against horizontal shifting or displacement from the table top part or section 10, part only of the table top 21 is shown at one corner portion of Fig. 3. It will also be understood that any type or kind of table top can be employed, such as plastic or combinations of plastic and fibre board or metal, or metal faced tops.

The cleats 19 in addition to retaining the table top against displacement also further reinforce the corner portions of the complete table top frame, the cleats being welded or otherwise secured in position. The lower frame parts 14 have adjacent the corner posts 15 and at sides and ends thereof rectangular apertures 22 for receiving the square portions 23 of stove bolts or similar fastenings 24 employed to secure the upper ends of the legs 11 to the table top part or frame 10.

In Fig. 4 of the drawing, the upper end of one of the legs is shown, and welded to the end of the leg 11 is an L-shaped mounting bracket 25, the end portions of which have apertures 26 for the reception of the bolts 24 and nuts 27 are employed in securing the parts together. It will appear that the upper end of the leg 11 extends to form a shoulder 28 outwardly beyond the corner portion 29 of the bracket 25, so that this shoulder forms a seat upon which the corner post 15 is adapted to rest, as will clearly appear from a consideration...
of Figs. 1 and 2 of the drawing. The lower ends of the legs have large disc like feet 30 to provide a wide spread support upon a lawn or other surface. Centrally of each leg is secured an inwardly directed cleat 31 to which the brace and coupling frame 12 is secured by bolts 24, similar to the bolts 24.

The frame 12 comprises an ornamental structure comprising a center ring 32 to which is welded or otherwise secured abruptly curved ends 33 of supporting arms 34 which flare outwardly in the direction of opposed sides of the table, as clearly seen in Fig. 3 of the drawing, and the ends of these arms are secured to the cleats 31 by the bolts 24. The frame 12 in addition to bracing and coupling the legs 11 also form a table-like structure upon which magazines, papers and similar articles can be supported.

Joining the top and bottom frames 13 and 14 of the table top 10, and welded or otherwise secured to edges of these frames, including the corner posts 15, is an ornamental filigree work, as partially indicated as 35, in Figs. 1 and 2 of the drawing. This gives an attractive ornamental appearance to the table. This filigree work has been omitted from the showing in Fig. 4, as well as in Fig. 5 in order to simplify the showings in these latter figures. It will be apparent that the design of this ornamentation may be modified in different tables without interfering with the basic construction of the complete table unit comprising the parts 10, 11 and 12.

By reason of the braced leg structure employed, the table obtains a very sturdy mounting and support, and yet the complete table structure, when assembled, will be comparatively light in weight, enabling the same to be moved about without difficulty. This light structure also facilitates handling in the packaging and shipment thereof. It will, of course, be understood that the tables may be made in different sizes, and I have found from practical experience that three sizes are desirable, that is to say, a small, medium and large size. In this way, tables to suit different uses are made available. The smaller size tables are often used as end tables associated with chairs, couches, settees and the like, whereas the larger tables may be used in serving and as luncheon tables for outdoor refreshments or meals of any type or kind.

In assembling the table unit from its knockdown packaged condition, it is desirable to first couple the legs with the corner portions of the table top with the latter in inverted position upon a floor or supporting surface, after which the leg brace and supporting member 12 is assembled with the leg members and after this assembly has been made the bolts coupling the leg members of the table top are tightened to their secure position, and finally the bolts 24 are tightened. The table top 21 can be securely fixed in position or can be made detachable and shipped in a separate package, particularly when it is desirable to select combinations satisfying the tastes of a customer. In this way, the complete table unit can also be produced in one of a number of colors or color combinations which can be marked and identified on the carton or package 35, shown in Fig. 6 of the drawing. To this end, the various parts of the complete table unit, that is to say, the table top frame 10, the leg members 11, and the leg brace frame 12, are diagrammatically illustrated in dotted lines.

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

1. A knockdown metal table comprising a unitary rectangular table top frame, a plurality of similar leg members and a leg coupling and bracing frame, means comprising L-shaped brackets at upper terminal end portions of the leg members and apertures at lower corner portions only of said table top frame for detachably coupling the leg members therewith, means at the central portion of the leg members and on said coupling and bracing frame for detachably coupling the latter with the leg members, said leg members having relatively large feet at the lower ends thereof, said table top frame comprising upper and lower frame parts fixedly united and spaced by L-shaped corner posts, and the upper-frame being L-shaped in cross sectional form providing a top horizontal part and a depending vertical outer wall part.

2. A knockdown metal table comprising a unitary rectangular table top frame, a plurality of similar leg members and a leg coupling and bracing frame, means comprising L-shaped brackets at upper terminal end portions of the leg members and apertures at lower corner portions only of said table top frame for detachably coupling the leg members therewith, means at the central portion of the leg members and on said coupling and bracing frame for detachably coupling the latter with the leg members, said leg members having relatively large feet at the lower ends thereof, said table top frame comprising upper and lower frame parts fixedly united and spaced by L-shaped corner posts, and the upper-frame being L-shaped in cross sectional form providing a top horizontal part and a depending vertical outer wall part.

3. A knockdown metal table comprising a unitary rectangular table top frame, a plurality of similar leg members and a leg coupling and bracing frame, means comprising L-shaped brackets at upper terminal end portions of the leg members and apertures at lower corner portions only of said table top frame for detachably coupling the leg members therewith, means at the central portion of the leg members and on said coupling and bracing frame for detachably coupling the latter with the leg members, said leg members having relatively large feet at the lower ends thereof, said table top frame comprising upper and lower frame parts fixedly united and spaced by L-shaped corner posts, and the upper-frame being L-shaped in cross sectional form providing a top horizontal part and a depending vertical outer wall part.

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tions extending above the upper surfaces of said top frame to form means retaining a table top against shifting on said top section, said section comprising upper and lower frames spaced and integrally united by L-shaped corner posts at corner portions of said section, four similar leg members, upper ends of said leg members having integral L-shaped brackets extending beyond side limits of the leg members and adapted to seat snugly upon inner surfaces of the bottom frame of said top section with upper ends of the leg members seating on the lower ends of said corner posts outwardly of said brackets, means detachably coupling the brackets to said bottom frame, a leg bracing and coupling frame detachably coupled with center portions of said legs, said top section having L-shaped corner posts outwardly of said brackets, means extending above the upper surfaces of said top frame to form means retaining a table top against shifting on said top section, the upper frame of said top section being L-shaped in cross sectional form providing a flat upper supporting surface for a table top arranged thereon, said leg members being bowed inwardly at the central portions thereof, the lower ends of said leg members having enlarged feet, and the top and bottom frames of the top section being joined by ornamental portions throughout the periphery thereof.

8. A knockdown metal table comprising a rectangular top frame, a plurality of similar leg members and a leg coupling and bracing frame, means comprising L-shaped brackets at upper terminal end portions of the leg members and at corner portions of said table top frame for detachably coupling the leg members therewith, means at the central portion of the leg members and on said coupling and bracing frame for detachably coupling the latter with the leg members, said leg members having relatively large feet at the lower ends thereof, said table top frame comprising upper and lower frame parts fixedly united and spaced by L-shaped corner posts, the upper frame being L-shaped in cross sectional form providing a top horizontal part and a vertical outer supporting surface for a table top for mounting on the upper part of said top frame, means at corner portions of the table frame for retaining said table top against horizontal shifting thereon, and said last named means comprising L-shaped cleats having raised flange portions projecting above the horizontal parts of said top frame.

9. A knockdown metal table of the class described comprising a rectangular top section, said section comprising upper and lower frames spaced and integrally united by L-shaped corner posts at corner portions of said section, four similar leg members, upper ends of said leg members having integral L-shaped brackets extending beyond side limits of the leg members and adapted to seat snugly upon inner surfaces of the bottom frame of said top section with upper ends of the leg members seating on the lower ends of said corner posts outwardly of said brackets, means detachably coupling the brackets to said bottom frame, a leg bracing and coupling frame detachably coupled with center portions of said legs, said top section having L-shaped corner posts outwardly of said brackets, means extending above the upper surfaces of said top frame to form means retaining a table top against shifting on said top section, the upper frame of said top section being L-shaped in cross sectional form providing a flat upper supporting surface for a table top arranged thereon, said leg members being bowed inwardly at the central portions thereof, the lower ends of said leg members having enlarged feet, and the top and bottom frames of the top section being joined by ornamental portions throughout the periphery thereof.

The following references are of record in the file of this patent:

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