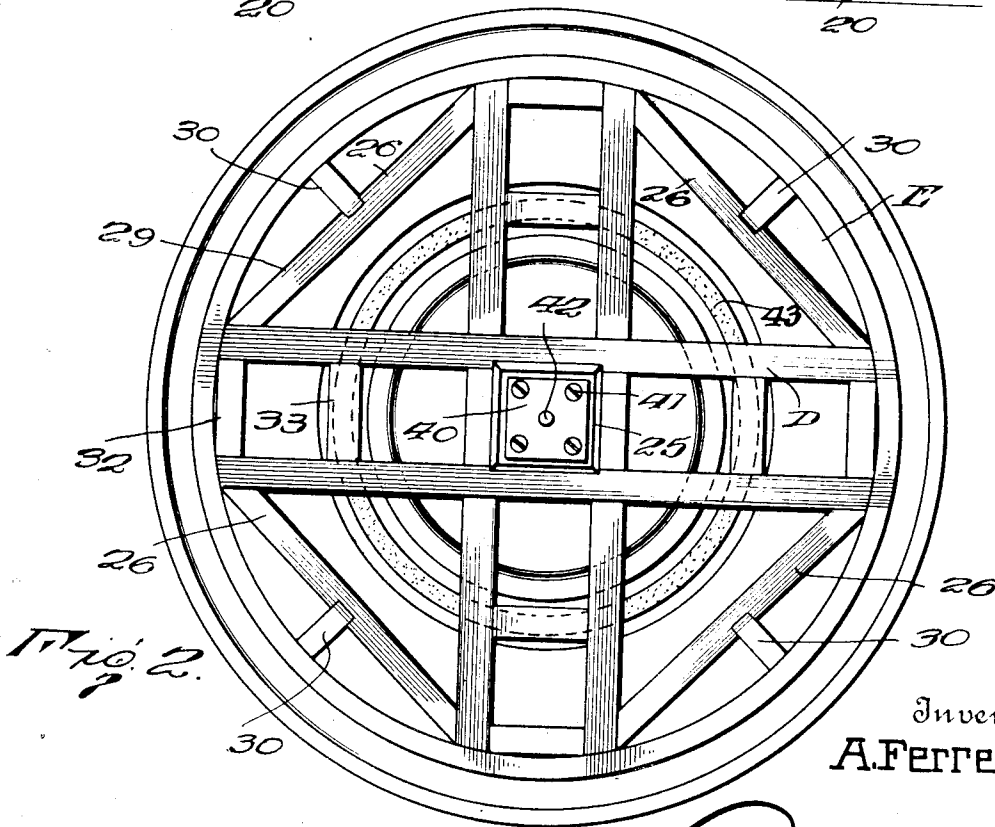
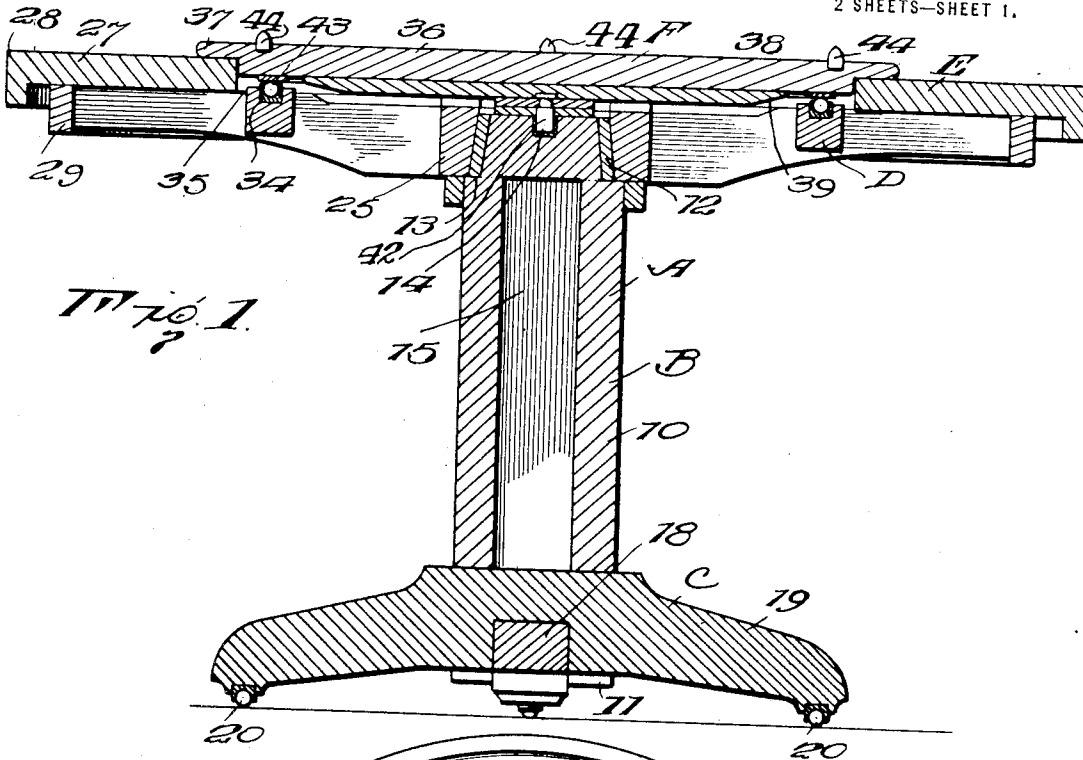


A. FERRELL.
 ROTARY CENTER KNOCKDOWN TABLE.
 APPLICATION FILED DEC. 6, 1919.

1,354,735.

Patented Oct. 5, 1920.

2 SHEETS—SHEET 1.



Inventor
 A. Ferrell

By

Lancaster and Allwine
 Attorneys

A. FERRELL.
 ROTARY CENTER KNOCKDOWN TABLE.
 APPLICATION FILED DEC. 6, 1919.

1,354,735.

Patented Oct. 5, 1920.
 2 SHEETS—SHEET 2.

Fig. 3

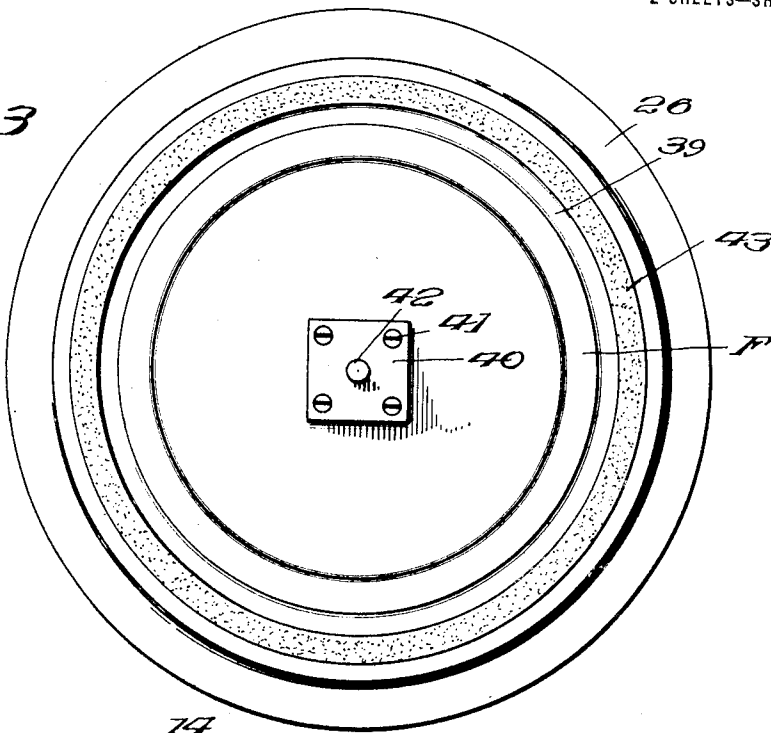


Fig. 4

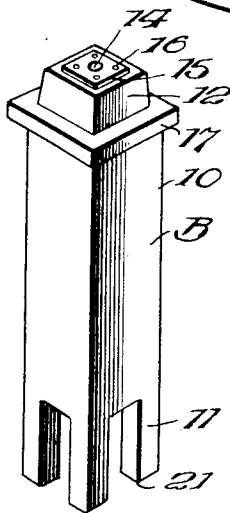
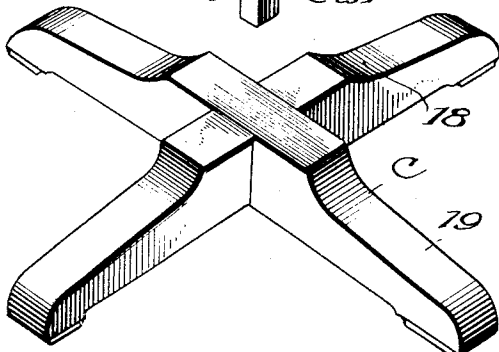
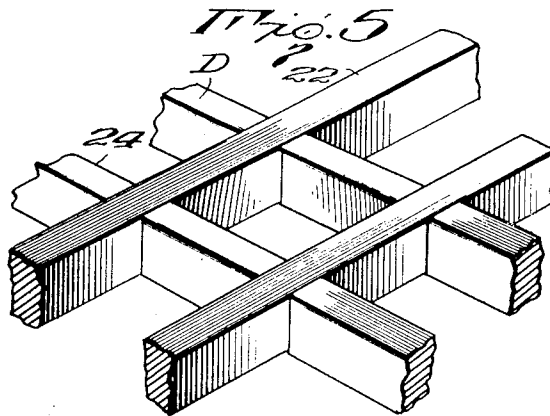


Fig. 5



By

Inventor
 A. Ferrell

Lancaster and Allwine
 Attorneys

UNITED STATES PATENT OFFICE.

ARTHUR FERRELL, OF TRINIDAD, COLORADO.

ROTARY-CENTER KNOCKDOWN TABLE.

1,354,735.

Specification of Letters Patent.

Patented Oct. 5, 1920.

Application filed December 6, 1919. Serial No. 342,919.

To all whom it may concern:

Be it known that I, ARTHUR FERRELL, a citizen of the United States, residing at Trinidad, in the county of Las Animas and State of Colorado, have invented certain new and useful Improvements in Rotary-Center Knockdown Tables, of which the following is a specification.

This invention relates to tables, and the primary object of the invention is to provide an improved dining room table having a rotary center, so that the serving of the diners is facilitated.

Another object of the invention is to provide an improved table formed of separable sections, so that the table can be readily taken apart for shipping in a knock-down condition.

Another object of the invention is the provision of an improved truss supporting structure for a table, so constructed as to hold the main table top and pedestal against relative movement.

A further object of the invention is to provide a table of the rotary center type, having an improved bearing track for the rotary center formed of cushioning material so that the operation of the table will be practically noiseless.

A still further object of the invention is to provide an improved dining room table of the above character, which is durable and efficient in use, one that is simple and easy to manufacture, and one which can be placed upon the market at a reasonable cost.

Other objects of the invention will appear in the following detailed description, taken in connection with the accompanying drawings, forming a part of this specification, and in which drawings,

Figure 1 is a central vertical section through the improved table.

Fig. 2 is a bottom plan view of the table top.

Fig. 3 is a detail bottom plan view of the rotary table top.

Fig. 4 is a detail perspective view of the pedestal and foot frame prior to being assembled, and

Fig. 5 is an enlarged detail fragmentary perspective view of the truss structure for the table top.

Referring to the drawings in detail, wherein similar reference characters represent corresponding parts throughout the several views, the letter A indicates the

improved table, which essentially includes the pedestal B, the foot frame C, the support or bracing truss structure D, the main table top E; and the central rotatable table top F.

The pedestal B is of the hollow type and is arranged at the central vertical axis of the table top and includes the body 10 having the depending lugs 11 formed on the corners thereof, which are adapted to engage the foot frame C, as will be hereinafter more fully described. The upper terminal of the body 10 is provided with the reduced hollow truncated pyramidal extension 12, having the block 13 positioned therein, which receives the central bearing 14. The bearing 14 is positioned in a recess in the upper face of the block and is carried by the central portion of the square wear plate 15, which is held in position by screws 16 or other suitable fastening elements.

The body 10 directly below the pyramidal extension 12 is provided with a flange 17 which forms a seat for limiting the downward movement of the truss structure D thereon, which will be hereinafter more fully described.

The foot frame C includes the intersecting right angular related bars 18 and 19 and the central portions of the upper and lower surfaces are notched to receive one another, so that the faces of the bars will extend flush with each other. The foot frame C may be carved in any suitable manner and the terminals thereof carry sockets for the reception of casters 20. The terminals of the lugs 11 are beveled as at 21 so as to present a finished appearance and to facilitate the position of the same on the foot frame.

The supporting frame D includes pairs of paralleled spaced protecting arms 22 which intersect each other and define a square outlined opening 24, the inner faces of which are beveled downwardly as at 25. In assembling, the truncated pyramidal extension 12 is placed in the opening 24 and the beveled wall 25 of the opening conforms to configuration thereof and provides means for binding the supporting truss frame in position. The flange 17 limits the downward movement of the truss frame on the pedestal. The upper and lower surfaces of the pairs of intersecting arms 22 and 23 are notched to receive each other, so that the upper surfaces thereof will lie in the same plane with one another. The terminals of the arms 22

are united by diagonally extending braces 26, and the same form an efficient means for rigidly uniting the terminals of the arms together against any side thrust.

5 The main table top E, includes an annular body 27, the outer edge of which is provided with a retaining ring 28, which prevents the distortion thereof. A depending annular flange 29 is secured to the lower
10 structure of the body 27 in concentric spaced relation to the outer edge thereof and the same engages the outer terminals of the pairs of arms 22 and 23. The annular body 27 rests upon the upper surface of the arms
15 adjacent to the outer ends thereof and the bracing bars 26 extend diagonally across the lower surface of the table top. The central portions of the diagonal braces 26 carry radially extending relatively short brace
20 bars 30, which engage the flange 29. The pairs of arms 22 and 23 have to have their terminals connected by means of cross braces 32. Cross braces 33 extend across each pair of arms 22 and 23 in spaced parallel
25 relation to the end braces 32 and the central portion of these braces have the upper surface thereof provided with recesses 34 for the reception of ball bearing rollers 35, which extend slightly above the upper sur-
30 face of the braces for a purpose which will be hereinafter more fully described.

The central rotary table top F includes a disk shaped body 36 the outer edge of which is provided with an outwardly extending reduced flange 37, which extends
35 flush with the upper surface of the body 36 and adapted to overlie the upper surface of the annular body 27 of the table top 38. The lower surface of the disk shaped body 36 has secured thereto a reinforcing plate
40 38 and inner terminals of the pairs of arms 22 and 23 are depressed at this portion to receive said reinforcing plate. The outer edge of the plate is beveled as at 39 to conform to the configuration of the depressed
45 portions of the arms. The central portions of the reinforcing plate 38, carries a metallic wear plate 40, which is secured thereto by screws 41 or other suitable fastening ele-
50 ments. The central portion of the wear plate carries a pivot pin 42, which is adapted to rotate in the bearing 14 carried by the wear plate 15 of the pedestal.

The ball bearings 35 are adapted to engage
55 the lower surface of the table top F adjacent the outer edge thereof and forms a friction reducing means for supporting the same. To render the operation of the table top F practically noiseless, an annular track 43
60 formed of felt, or the like is secured to the lower surface of the table top F and forms a runway for the ball bearing.

The upper surface of the table top F is provided at equidistantly spaced points with
65 knobs 44 which form means, whereby the

users of the table may take hold of the same to rotate the top F.

From the foregoing description, it will be seen that the pedestal, foot, frame and table
70 tops are held in their assembled position, without the use of any fastening elements, which permits the same to be readily taken apart, so that the table will occupy a minimum amount of space for shipping or stor-
75 ing.

In assembling the table, the pedestal B is placed on foot frame C, as heretofore described, and the supporting truss member D is then placed over the truncated pyramidal extension 12 and wedged into position
80 after which the central table top F is placed in position with the pivot pin 42 in the bearing 14.

When the table is set up and the same is in use, it is merely necessary to turn the
85 table top F to bring any article thereon directly in front of the person desiring the same, eliminating the necessity of reaching or asking someone for the article.

In practice, I have found that the form
90 of my invention, illustrated in the accompanying drawings and referred to in the above description, as the preferred embodiment, is the most efficient and practical; yet realizing the conditions concurrent with
95 the adoption of my device will necessarily vary, I desire to emphasize the fact that various minor changes in details of construction, proportion and arrangement of parts may be resorted to, when required,
100 without sacrificing any of the advantages of my invention as set forth.

What I claim as new is:—

1. A table including a central supporting pedestal, a truncated pyramidal extension
105 formed at the upper end of the pedestal, an outwardly extending flange formed on the pedestal directly below the truncated pyramidal extension, a supporting frame, having an opening arranged to conform to
110 the configuration of the pyramidal extension, said opening being adapted to receive the pyramidal extension, the walls of said opening being adapted to frictionally en-
115 gage the outer surfaces of the pyramidal extension whereby rotary movement of said frame is prevented on said pedestal.

2. A table including a central pedestal support, a truncated pyramidal extension
120 formed at the upper end of the pedestal, a supporting truss structure including pairs of intersecting arms defining a central square opening adapted to receive the truncated pyramidal extension, the walls of the
125 opening being inclined downwardly and outwardly to conform to the inclination of the truncated pyramidal extension, and a table top carried by the supporting truss structure.

3. In a table, a supporting truss structure 130

including pairs of intersecting arms, an annular table top section carried by the outer terminals thereof, an annular band secured to the outer terminals of the arms engaging the lower surface of the table top structure, diagonal bars connecting the terminals of the arms and engaging the lower surface of the annular table top section, and radially extending brace bars connecting the central portion of the diagonal bars with the annular band.

4. In a table comprising a pedestal, a supporting truss structure carried by the pedestal, an annular table top section secured to the supporting truss structure, a flat wear plate secured to the upper surface of the pedestal, a band carried by said wear plate, a central rotatable table top structure, a flat wear plate secured to the central portion of the lower surface of the rotatable table structure, a depending pin carried by the last mentioned wear plate arranged to engage a bearing carried by the first mentioned wear plate, ball bearings carried by the supporting truss structure and an annular felt track secured to the lower surface of the rotatable table top structure adjacent the outer edge thereof arranged to engage said ball bearings.

ARTHUR FERRELL.