

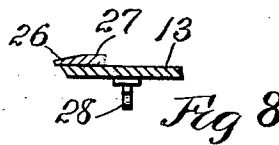
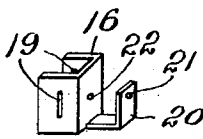
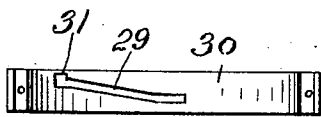
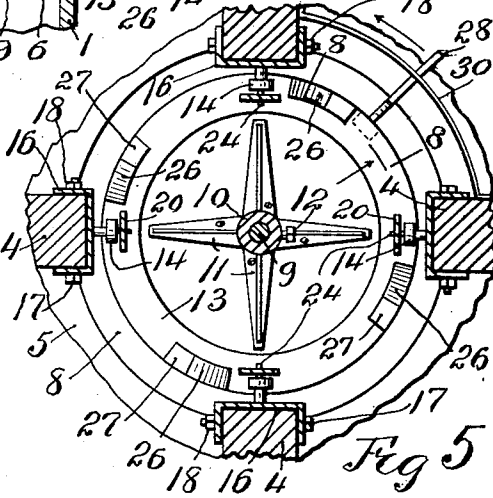
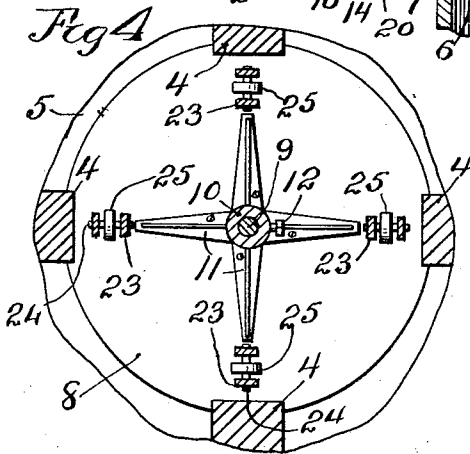
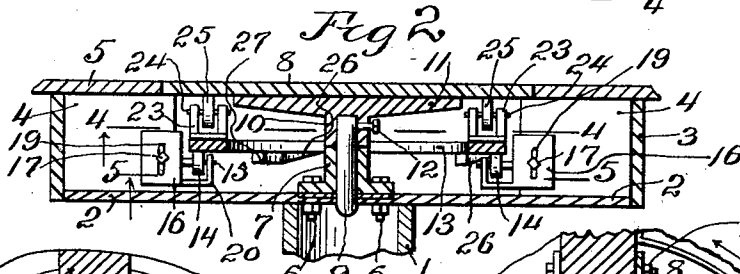
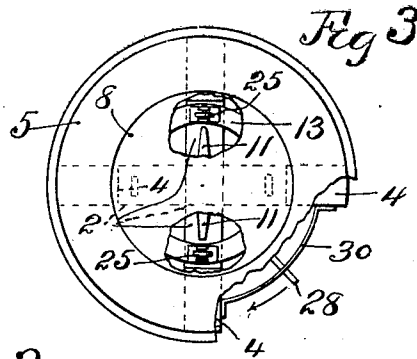
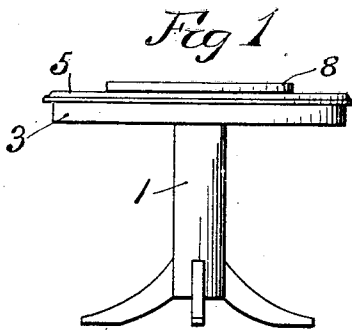
Dec. 24, 1929.

G. M. PATTERSON

1,740,831

SERVING TABLE

Filed July 23, 1928



Witness  
H. Vernon Olson

INVENTOR.  
George M. Patterson  
BY Warren D. House.  
His ATTORNEY.

# UNITED STATES PATENT OFFICE

GEORGE M. PATTERSON, OF KANSAS CITY, KANSAS

## SERVING TABLE

Application filed July 23, 1928. Serial No. 294,702.

My invention relates to improvements in serving tables. It relates particularly to the type of serving tables in which a table top member is adapted for being lifted and re-  
 5 volved, so as to render articles carried by the top member readily accessible to persons seated around the table.

One of the objects of my invention is to provide novel means by which the revoluble  
 10 top member may be lifted and revolubly supported. A further object of my invention is to provide a construction for effecting such function, which is simple, cheap, durable,  
 15 not likely to get out of order, which is easily and quickly operable, which will not be liable to subject the articles carried by the top member to excessive jarring, and which has means for adjustment to compensate for wear  
 or warping of the parts.

20 The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawings, which illustrate the preferred embodiment of my invention,

25 Fig. 1 is a side elevation, reduced, of a table provided with my improvement, the revoluble top member being shown in the lifted position.

30 Fig. 2 is an enlarged central vertical sectional view of the upper portion of my improved table, the revoluble top member being shown in the lowered position.

Fig. 3 is a top view, reduced and partly  
 35 broken away, of my improved table.

Fig. 4 is a section on the line 4—4 of Fig. 2, looking upwardly, and partly broken away.

Fig. 5 is a section on the line 5—5 of Fig. 2, looking upwardly, and partly broken away.

40 Fig. 6 is an outside elevation of the lever locking bar.

Fig. 7 is a perspective of one of the adjustable roller supporting brackets.

45 Fig. 8 is a section on the line 8—8 of Fig. 5, parts being omitted.

Similar reference characters designate similar parts in the different views.

50 The table is provided with a support comprising a pedestal 1 on which are mounted two crossed horizontal truss members 2 to the

ends of which is fastened a circular skirt member 3.

Respectively mounted on the end portions of the members 2 are blocks 4, which extend  
 55 inwardly from and have their upper sides flush with the upper edge of the skirt member 3. On the blocks 4 and skirt member 3, and projecting outwardly from the latter, is a stationary annular table top portion 5. Upon  
 60 the members 2 at the intersection thereof and fastened thereto by bolts 6 is a tubular bearing member 7, which is provided with a central vertical bore.

A flat circular horizontal revoluble top  
 65 member 8 is revolubly fitted within the annular stationary top portion 5, and is adapted to rest, in its lowered position, on the upper sides of the blocks 4 which project inwardly  
 70 from the portion 5, with its top surface in the plane of the top surface of the top portion 5, as shown in Fig. 2.

A central vertical spindle 9 is rotatably and  
 75 vertically slidably fitted in the bearing member 7, and has its upper end portion fitted in a vertical hole in the lower end of a hub 10 of a member having radial arms 11.

The arms 11 are fastened to the under side of the revoluble top member 8. A set screw  
 80 12 in the hub 10 bears against the spindle 9.

For lifting the top member 8 to the elevated position shown in Fig. 1, and for supporting said member revolubly in said position, I provide the following described mechanism.

A horizontal ring 13, concentric with the  
 85 top member 8 and with the top portion 5, is revoluble around the axis of the top member 8 and has its under side resting on and supported by rollers 14, which are respectively  
 90 rotatable on horizontal radial pins 15, which are respectively mounted in U shaped brackets 16, which respectively embrace the inner ends of the blocks 4, to which they are  
 95 clamped by horizontal bolts 17 having nuts 18, Fig. 5, which bolts extend each through slots 19 provided in the arms of the adjacent bracket. Each bracket 16 has an arm 20  
 100 which extends inwardly and then upwardly, the adjacent pin 15 being mounted in alined holes 21 and 22 in the upwardly extending

part of the arm 20 and the transverse portion of the U shaped bracket. By loosening the nuts 18, the brackets 16 may be vertically adjusted on the blocks 4, to compensate for wear or warping, and the nuts 18 then tightened to hold the brackets in their adjusted positions.

On the upper side of the ring 13 are mounted U shaped bearings 23, in the arms of which are mounted horizontal pins 24 on which are respectively mounted rollers 25 adapted to bear against the under side of the top member 8, and to revolvably support the top member, when the ring 13 with the rollers 25 thereon is lifted.

To lift the ring 13, when it is desired to lift the top member 8, the under side of the ring 13 is provided with surfaces 26 which incline downwardly from the under side of the ring, and at their lower ends terminate in horizontal surfaces 27.

When the ring 13 is turned clock-wise, as viewed from above, the inclined surfaces 26 will respectively contact with the rollers 14 which will travel along the inclined surfaces, thereby lifting the ring 13, and, through the intermediacy of the bearings 23 and rollers 25, lifting the table top members 8 to the position shown in Fig. 1. The top may then be rotated in either direction while resting on the rollers 25.

To turn the ring 13, it has fastened to it the inner end of a radial operating lever 28, Figs. 3 and 5, said lever being extended through an inclined slot 29 provided in an arcuate bar 30, the ends of which are respectively fastened to two adjacent blocks 4. The lever 28 is held under tension which tends to make it spring upwardly.

By swinging the lever 28 in the direction indicated by the arrows in Figs. 3 and 5, the ring 13 is revolved so that the inclined surfaces 26 ride upwardly on the rollers 14, thus lifting the ring 13 and the lever 28. When the lever 28 reaches the upper end of the slot 29, the lever will spring upwardly into an upwardly extending recess 31 at that end of the slot, thus holding the lever from moving from the uppermost position.

At this time, the rollers 14 will have run onto the horizontal surfaces 27.

To lower the top member 8, the lever 28 is depressed from the recess 31 and forced counter-clockwise, as viewed from above, thereby revolving the ring 13 so that the inclined surfaces 26 will pass off from the rollers 14, and the ring 13 will reach the position shown in Fig. 2.

When the lever 28 has been swung to the extreme right end of the slot 29, as viewed in Fig. 6, the ring 13 will be in its lowermost position, and the top member 8 will again rest on the blocks 4, as in Fig. 2.

I do not limit my invention to the structure shown and described, as many modi-

fications, within the scope of the appended claims, may be made without departing from the spirit of my invention.

What I claim is:—

1. In a serving table, a support having a stationary peripheral top portion, a central top member concentric with said top portion and vertically movable and revoluble on a vertical axis on said support, means revoluble around said axis for lifting and supporting said top member, and means by which when said revoluble means is revolved in the proper direction it will lift and revolubly support said top member.

2. In a serving table, a support having a stationary peripheral top portion, a central top member concentric with said top portion and vertically movable and revoluble on a vertical axis, a ring revoluble around said axis and having inclined surfaces, and vertically movable, means on said ring for lifting and revolubly supporting said top member when said ring is lifted, and supporting means on said support for said ring, arranged when said ring is revolved in one direction to engage said inclined surfaces and lift said ring.

3. In a serving table, a support having a stationary peripheral top portion, a central top member concentric with said top portion and vertically movable and revoluble on a vertical axis, a second member revoluble around said axis and vertically movable and having inclined surfaces on its underside, means carried by said second member for lifting and revolubly supporting said top member, and supporting means on said support for said second member, arranged when said second member is revolved in one direction, to engage said inclined surfaces, whereby the latter lift said second member.

4. In a serving table, a support having a stationary peripheral top portion, a central top member concentric with said top portion and vertically movable and revoluble on a vertical axis, means revoluble around said axis for lifting and revolubly supporting said top member and having inclined surfaces, and means vertically adjustable on said support for supporting said revoluble supporting means and, when the latter is revolved in one direction engaging said inclined surfaces, whereby said revoluble supporting means is lifted.

5. In a serving table, a support having a stationary peripheral top portion, a central top member concentric with said top portion and vertically movable and revoluble on a vertical axis, a vertically movable ring revoluble around said axis, and means carried by said ring for revolubly supporting said top member, supporting means on said support for said ring, said ring having means by which, when said ring is turned in one direc-

tion on said supporting means, the ring will be lifted.

6. In a serving table, a support having a stationary peripheral top portion, a central top member concentric with said top portion and vertically movable and revoluble on a vertical axis, a vertically movable ring revoluble around said axis and having inclined surfaces, means on said ring for lifting and revolubly supporting said top member, and supporting means vertically adjustable on said support for supporting said ring and arranged, when the ring is turned in one direction to engage said inclined surfaces whereby the latter will lift said ring.

In testimony whereof I have signed my name to this specification.

GEORGE M. PATTERSON.

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