P. GORNY.

COMBINED TABLE AND CHAIR CONSTRUCTION.

APPLICATION FILED MAY 2, 1918.

1,283,733.

Patented Nov. 5, 1918.

2 SHEETS—SHEET 1.

FIG. 1.

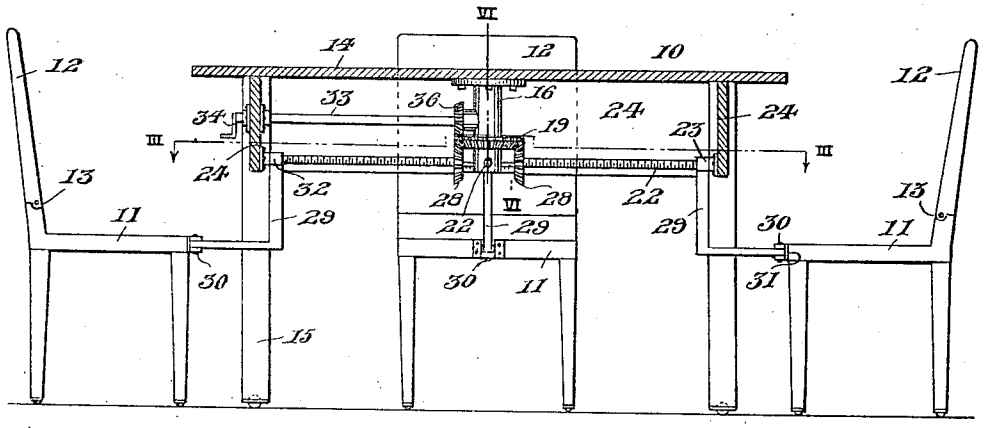


FIG. 2.

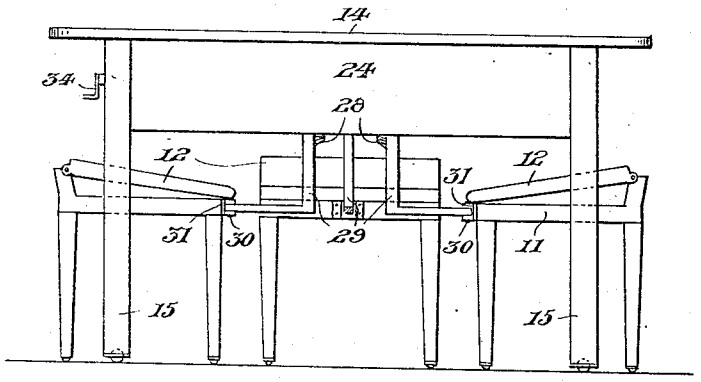


FIG. 6.

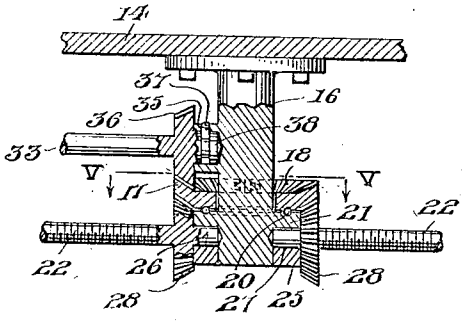
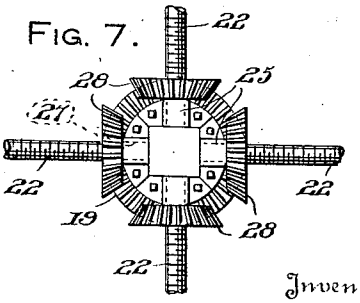


FIG. 7.



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2 SHEETS—SHEET 2.

FIG. 3.

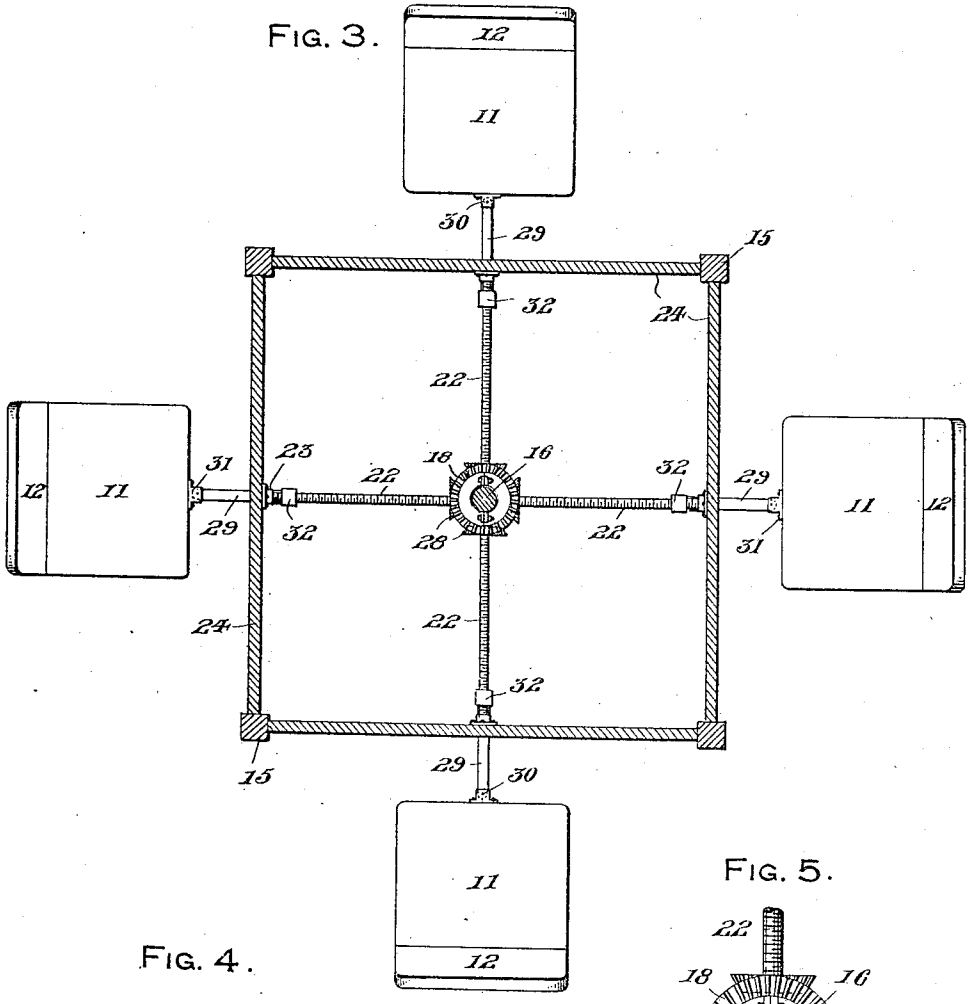


FIG. 4.

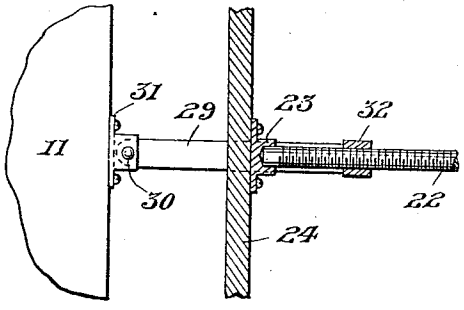
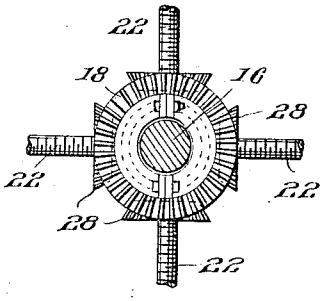


FIG. 5.



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COMBINED TABLE AND CHAIR CONSTRUCTION.

1,283,733. Specification of Letters Patent. Patented Nov. 5, 1918.

Application filed May 2, 1918. Serial No. 232,181.

To all whom it may concern:

Be it known that I, PIETR GORNY, a citizen of Russia, residing at East Chicago, in the county of Lake and State of Indiana, have invented certain new and useful Improvements in Combined Table and Chair Constructions, of which the following is a specification.

The primary object of the invention is to provide a table having a set of chairs adapted to be mechanically shifted into and out of suitable positions for occupancy by persons employing the table for such purpose as eating or playing games.

A further object of the invention is to provide a table with chairs bodily movable from points outwardly of the table to inoperative folded positions beneath the table, a ready means being provided for simultaneously shifting the chairs at will.

A still further object of the invention is the provision of mechanically operated means whereby all of the chairs employed at a table may be simultaneously drawn beneath the same out of the way when not desired for use, the chairs being readily rearranged in swinging position at suitable points to be occupied by persons seated at the table.

In the drawings forming a part of this application and in which like designating characters refer to corresponding parts throughout the several views,

Figure 1 is a vertical transverse sectional view taken through the device.

Fig. 2 is a side elevation thereof with one of the chairs removed.

Fig. 3 is a horizontal sectional view taken upon line III—III of Fig. 1.

Fig. 4 is a detail horizontal sectional view of the chair operating means slightly enlarged.

Fig. 5 is a horizontal sectional view taken on line V—V of Fig. 6.

Fig. 6 is a vertical sectional view taken upon line VI—VI of Fig. 1 with parts being shown in elevation, and

Fig. 7 is a bottom plan view of the gear driving means employed with the device.

It is often desirable to readily retract all of the chairs quickly beneath a table at certain times, such for instance as at the end of a game or meal, so that the chairs will be out of the way for using the table or adjacent space for different purposes.

These results are accomplished by my invention which provides a suitable form of table 10 having a set or plurality of chairs 11, the said chairs preferably having folding backs 12 hinged as at 13 while the said chairs 11 may be forcibly drawn beneath the top 14 of the table between the upright corner legs 15 of the table.

A cylindrical hub 16 is centrally secured depending from the top 14 provided with a double beveled gear 17 journaled thereon. This gear 17 is dished upon its upper side provided with radially positioned teeth 18 while teeth 19 are provided upon the bottom of the gear opposite the teeth 18. The gear 17 is anti-frictionally mounted by means of balls 20 upon an annular flange 21 carried by the said hub, the said gear being preferably of sectional construction permitting the ready assembling of the device as best illustrated in Fig. 3 of the drawings.

A screw 22 is provided for each of the chairs 11 horizontally journaled beneath the table by means of bearing sockets 23 secured to the sides 24 of the table and bearing segments 25 secured to the bottom of the flange 21. The inner cylindrical ends 26 of the screws 22 are journaled in sockets 27 in the blocks 25, while openings 28 are carried by the screws 26 in constant mesh with the bottom teeth 19 of the gear 17. Right angular arms 29 are hinged as at 30 to the forward edges 31 of the chairs 11 with the other ends of the arms in the form of threaded sleeves 32 positioned within the screws 22 extending therethrough.

It will be evident that when the chairs 11 are positioned outwardly of the table for use by persons employed at the table as illustrated in Figs. 1 and 3 of the drawings, the turning of the gear 17 in one direction will rotate the pinions 28 and shafts 22 after feeding the arms 29 inwardly, moving the chairs 11 toward the table. When the chair backs 12 are in their folded positions, the chairs may be retracted entirely beneath the table top 14 as shown in Fig. 2.

A rod 33 is journaled through one of the sides 24 of the table and provided with a crank 34 upon its outer end, while the inner end of said rod is journaled in a radially projecting boss 35 upon the hub 16. A beveled pinion 36 is provided upon the rod 33 in constant mesh with the upper teeth 18 of the gear 17. A screw 37 extends through the boss 35 into an annular groove 38 of the

inner end of the rod 33 which prevents longitudinal outward movement of the said rod.

When a meal or game at the table 10 has been finished by persons seated upon the chairs 11 and said chairs have been vacated, the backs 12 may be dropped down to their folded positions and the crank 34 revolved to inwardly draw all of the chairs 11 beneath the table as shown in Fig. 2. When the chairs are again desired for use, the crank 34 may be turned in an opposite direction for forcing the chairs 11 outwardly so that they may be shifted upon their hinges 30 in seating positions and the backs 12 swung upwardly upon their hinges 13. The operation of shifting the chairs into and out of their operative positions is easily and quickly accomplished, and the advantages of securing chairs 11 beneath the table will be apparent for use in such places as crowded restaurants.

What I claim as new is:—

1. In combination with a table, a hub centrally depending therefrom, a gear journaled upon said hub, screws horizontally journaled beneath the table, pinions upon said screws in constant mesh with said gear, a plurality of chairs, arms threaded upon said screws having angular outwardly extending portions pivoted to the front sides of said chairs and operating means for the gear.

2. In combination with a table, a hub centrally depending therefrom, a gear journaled upon said hub, screws horizontally journaled beneath the table, pinions upon said screws in constant mesh with said gear, a plurality of chairs, arms threaded upon said screws having angular outwardly extending portions pivoted to the front sides of said chairs, a rod horizontally journaled beneath the table between said hub and the side of the table, a pinion upon said rod in constant mesh with said gear, means at the inner end of said rod adapted for preventing the outward longitudinal movement thereof and an operating crank upon the outer end of the rod.

In testimony whereof I affix my signature.

PIETR GORNY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."