A. S. EL-KOURI.

EXTENSION TABLE.

APPLICATION FILED SEPT. 23, 1908.

925,427. Patented June 15, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

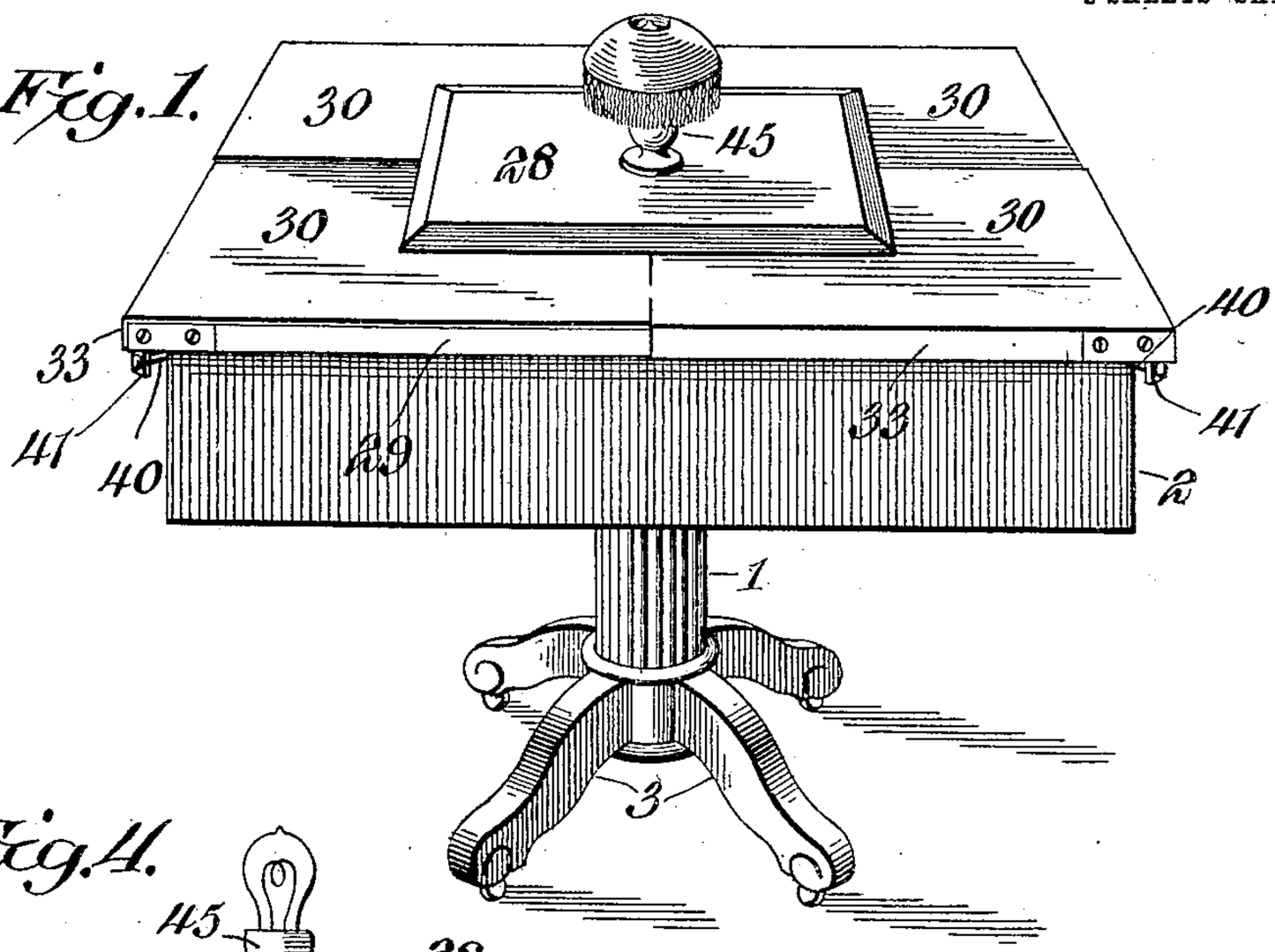


Fig. 4.

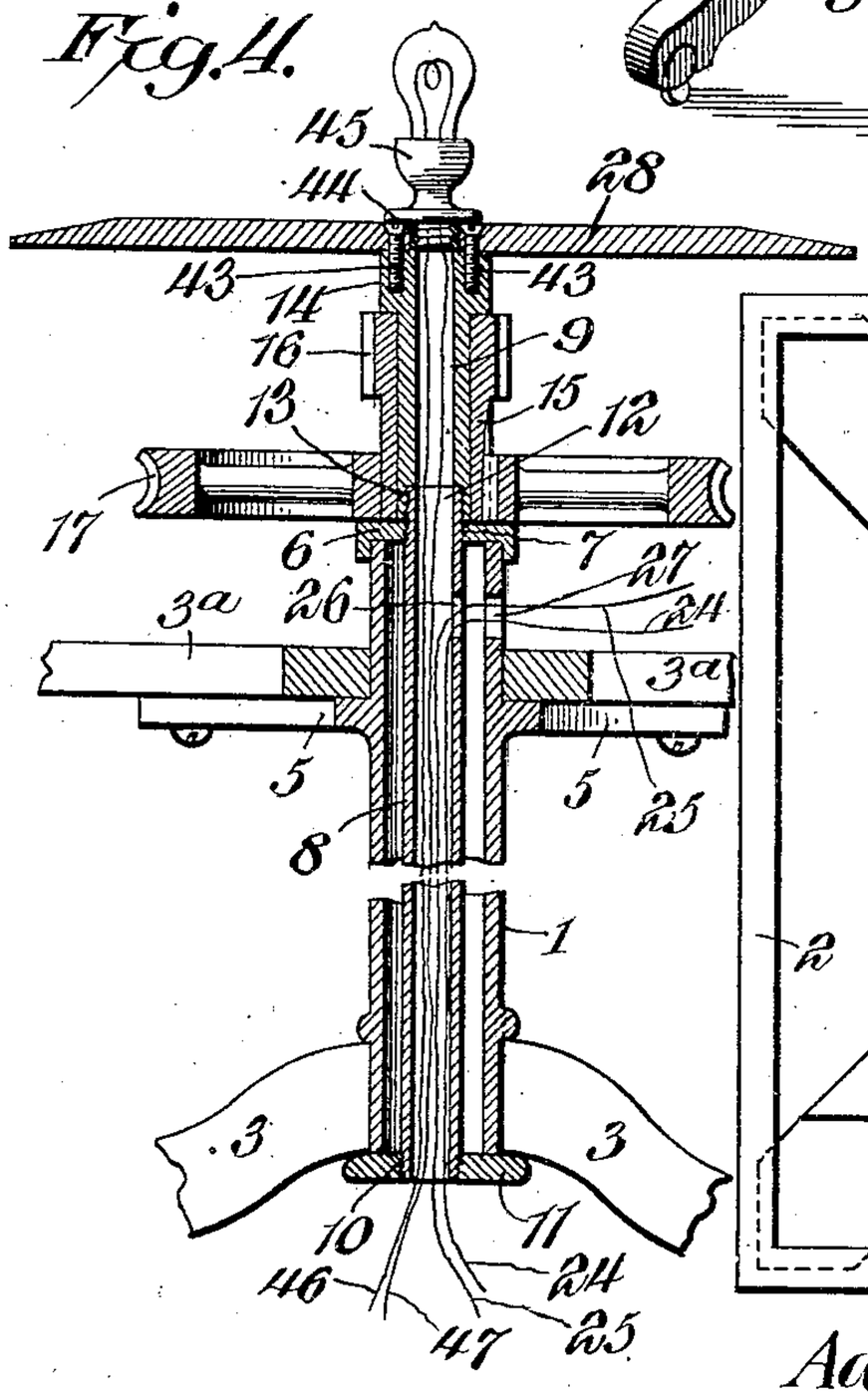
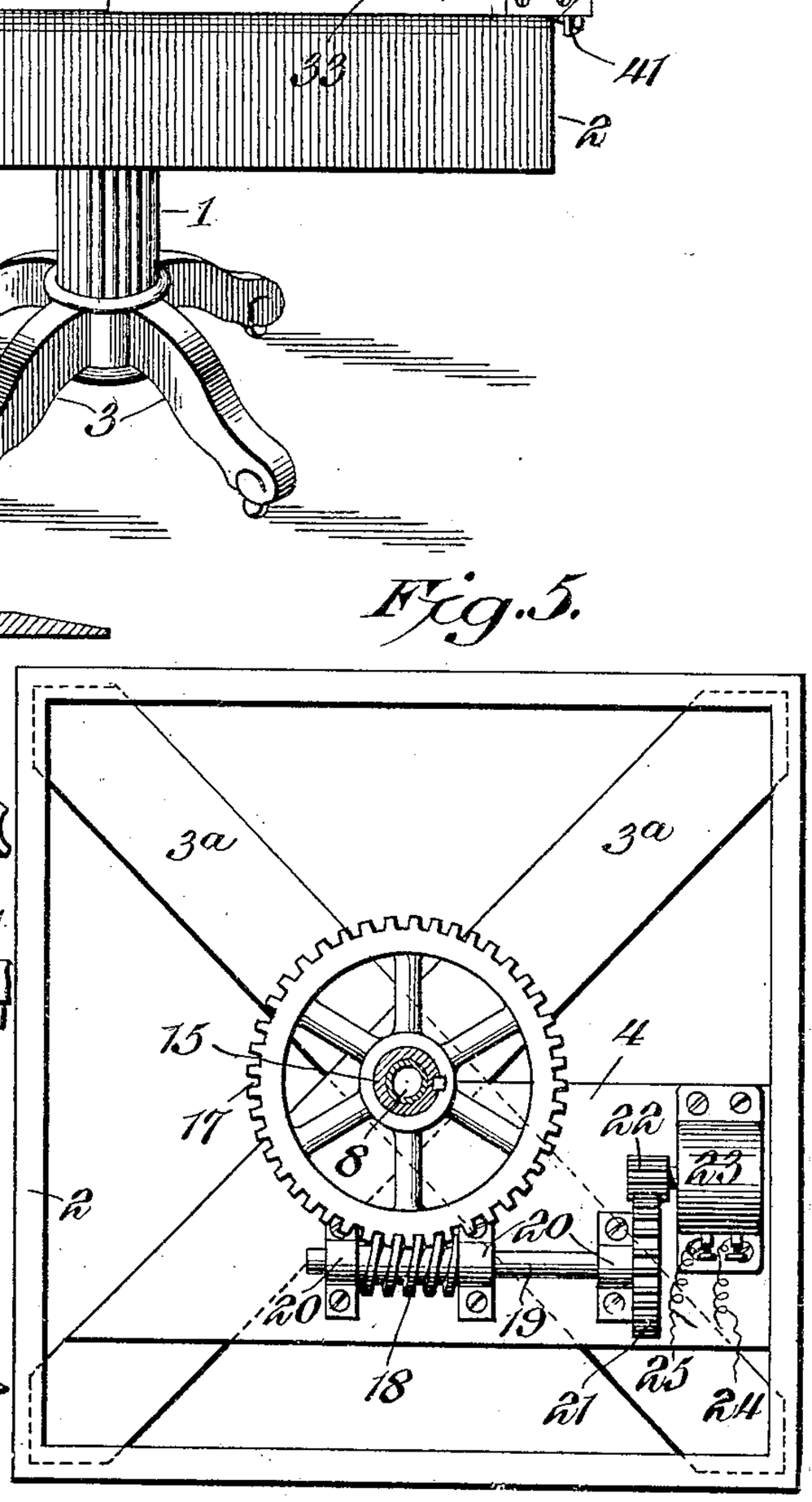


Fig. 5.



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2 SHEETS—SHEET 2.

Fig. 2.

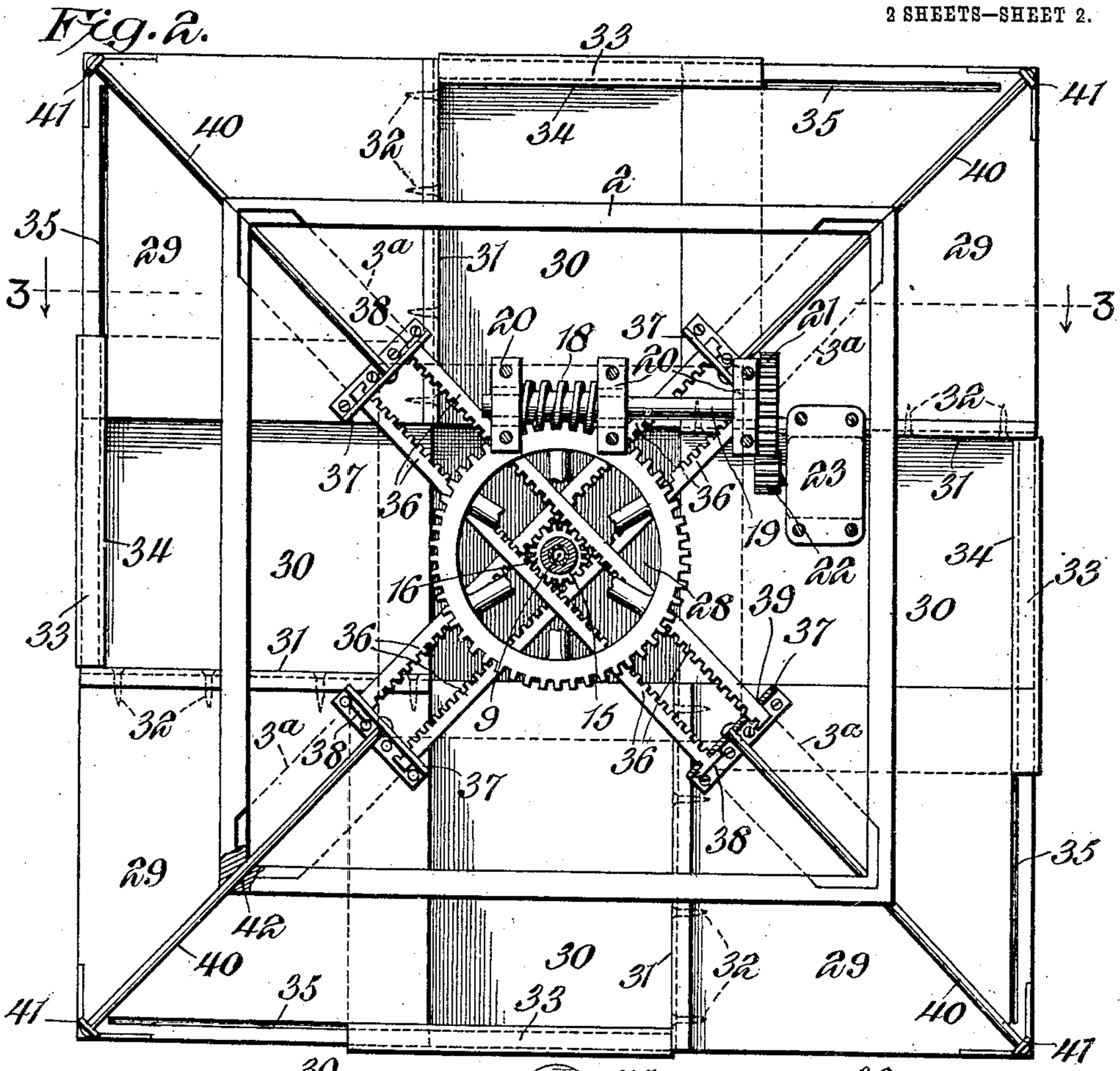
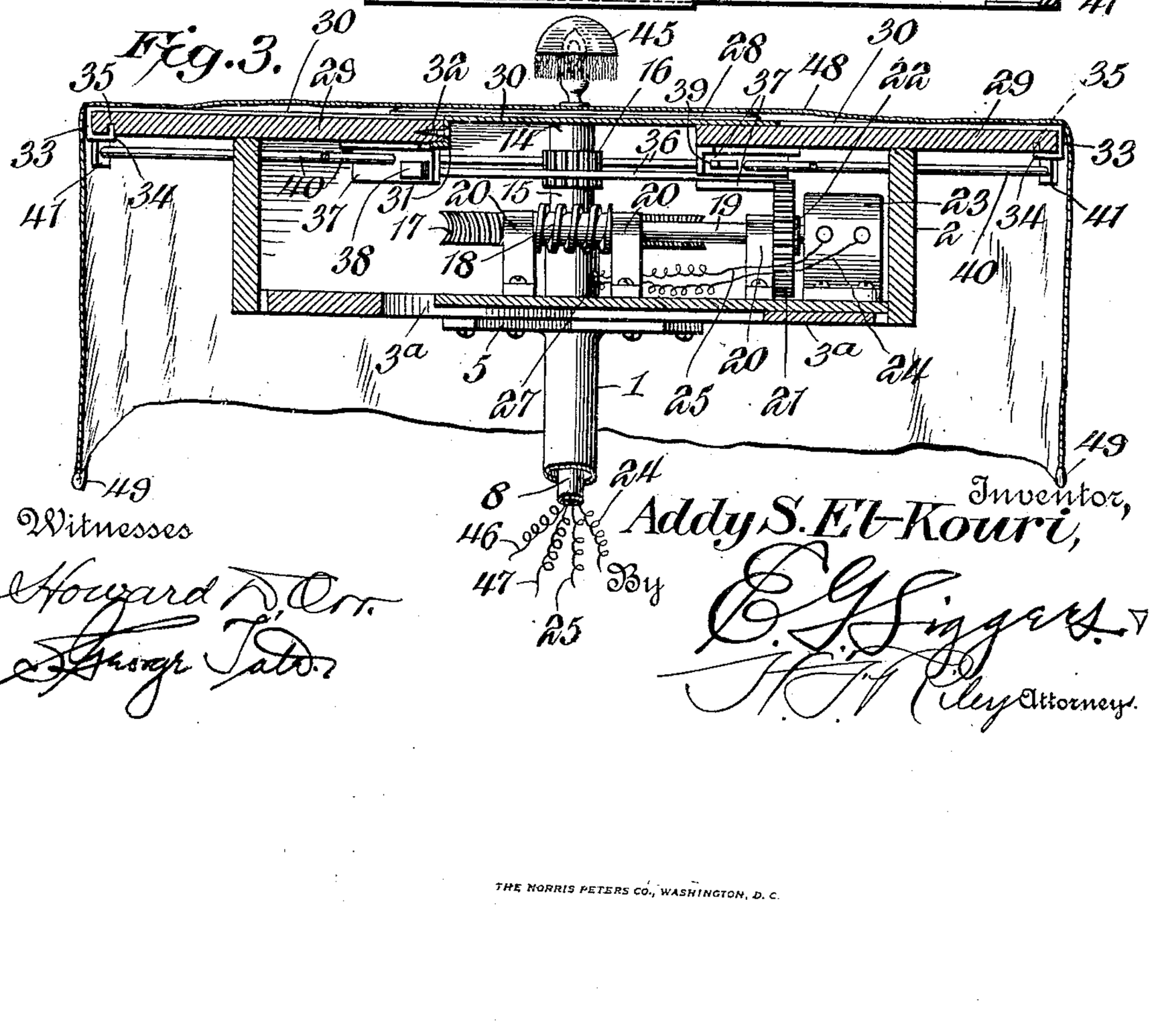


Fig. 3.



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UNITED STATES PATENT OFFICE.

ADDY S. EL-KOURI, OF DUKE, OKLAHOMA.

EXTENSION-TABLE.

No. 925,427. Specification of Letters Patent. Patented June 15, 1909.

Application filed September 23, 1908. Serial No. 454,396.

To all whom it may concern:

Be it known that I, ADDY S. EL-KOURI, a citizen of the United States, residing at Duke, in the county of Jackson and State of Oklahoma, have invented certain new and useful Improvements in Extension-Tables, of which the following is a specification.

The invention relates to improvements in extension tables.

The object of the present invention is to improve the construction of extension tables, and to provide a simple and comparatively inexpensive extension table, designed for use in public and private dining rooms and various other places and equipped with means for enabling it to be instantly adjusted to make it either larger or smaller to accommodate the desired number of persons.

A further object of the invention is to provide an extension table of this character, capable of adjustment without taking off the table cloth, or removing an electrolier, candelabra, or other ornamental center piece.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a perspective view of an extension table, constructed in accordance with this invention. Fig. 2 is a reverse plan view of the upper portion of the extension table, partly in section. Fig. 3 is a vertical sectional view on the line 3—3 of Fig. 2. Fig. 4 is a detail vertical sectional view of the central portion of the table. Fig. 5 is a plan view of the upper portion or bed of the supporting frame, illustrating the manner of mounting the motor and the gearing for simultaneously adjusting the movable leaf sections.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

The table comprises in its construction a supporting frame including a central vertical hollow column 1, a rectangular top portion or bed 2 and legs 3, extending from the lower end of the hollow column. The hollow column and the legs, which may be constructed of any suitable material, are preferably of an ornamental character, and the horizontal top portion or bed 2 is composed of side bars or rails, diagonal braces 3^a and a platform 4. The hollow column is provided at its upper portion with a spider 5, consisting of diagonally arranged arms receiving the braces 3^a and secured to the lower faces thereof. The upper end of the hollow column is provided with a cap 6, having a central threaded opening 7 for the reception of the upper end of the lower section 8 of a vertical tubular conduit or member, which is also provided with an upper section 9.

The lower end of the lower section is threaded and engages a threaded aperture 10 of a nut or plate 11, designed in practice to be rigidly connected with the lower end of the hollow column. The upper end 12 of the lower section of the central tubular conduit is extended above the cap 6 and screwed into the lower end 13 of the upper section 9, which is interiorly threaded. The upper section 9 is provided at its upper end with an enlargement or head 14, and it forms a bearing for a rotary sleeve 15, provided at its upper end with a pinion 16 and connected at its lower end with a horizontal worm wheel 17. The worm wheel meshes with a worm 18 of a horizontal shaft 19, journaled in suitable bearings 20 and equipped with a spur gear 21, which meshes with a pinion 22 of an electric motor 23. The platform 4 supports the electric motor and the bearing 20, the motor and the bearing being secured by screws, or other suitable fastening devices to the platform. The wires 24 and 25 leading to the motor pass upward through the central tubular conduit and enter the same at the lower end thereof, and they extend through registering apertures 26 and 27 of the upper portions of the lower section of the conduit and the tubular column. The motor furnishes power for operating the gearing to simultaneously adjust movable leaf sections of the top of the table.

The top of the table is composed of a central relatively fixed leaf section 28 and four adjustable or extensible leaf sections, each composed of a wooden supporting member 29 and an overlapping relatively thin sheet metal member 30. The wooden supporting members are located at the corners of the top of the table, and each overlapping sheet

metal member is secured to the end of the inner transverse edge of its companion corner member, and it extends along the adjacent side of the table and overlaps the relatively thick wooden supporting member of the contiguous leaf section. The overlapping member 30 is provided at its inner transverse edge with a substantially L-shaped attaching flange 31, secured by screws 32, or other suitable fastening devices to the wooden member 29, and it fits against the adjacent edge and the lower face of the said member 29. The upper face of the relatively thin member of the leaf section is located above the upper face of the relatively thick supporting member 29, so that all of the relatively thin members of the leaf sections are disposed in the same horizontal plane, and have their upper faces in flush relation, when the table is closed, as illustrated in Figs. 1 and 3 of the drawings. The outer marginal edge of the relatively thin member is equipped with a tubular guide or way 33, substantially rectangular in cross section and consisting of an outer vertical wall, a horizontal bottom, and a vertical flange 34, extending upwardly from the inner edge of the horizontal bottom wall and fitting within a longitudinal groove 35, formed in the lower face of the relatively thick member that is overlapped by the said relatively thin member. The contiguous outer marginal portion of the relatively thick member is arranged within and embraced by the hollow guide of the relatively thin member, whereby the leaf sections of the top of the table are slidably interlocked with one another. When the table is adjusted to change the size of the top, the relatively thin member of one leaf section slides over the relatively thick member of the contiguous leaf section. The slidable interlocking of the adjustable leaf sections of the top maintain the said leaf sections in their rectangular relation.

The extensible leaf sections are simultaneously moved inward and outward and are guided in such adjustment by means of the diagonal rack bars 36, arranged in pairs, the members of each pair being disposed in parallel relation. The rack bars, which are provided at their inner edges with teeth, mesh with the pinion 16, as clearly illustrated in Fig. 3 of the drawings. The relatively thick wooden sections are equipped at their inner corners with fixed inner brackets 37, preferably L-shaped in cross section and consisting of a horizontal attaching flange and a depending vertical flange. The depending vertical flange, which is rigidly secured at 38 to one of the members of the contiguous parallel rack bars, is provided with a guide opening 39, receiving the other member of such pair of rack bars. By this construction, each inner bracket is fixed to one rack bar and guides the adjacent rack bar. The inner bracket 37 is connected by a diagonal guide rod 40 with an outer corner bracket 41, secured to the outer corner of the relatively fixed member and provided with a depending lug to which the outer end of the guide rod 10 is attached. The guide rods 40 pass through openings 42 in the corners of the upper rectangular top portion or bed of the supporting frame of the table. By this construction, the extensible leaf sections of the top of the table are simultaneously adjusted inward and outward.

The relatively fixed top section 28 is secured by screws 43, or other suitable fastening devices to the upper end of the upper section 9 of the tubular conduit, which is provided with an interiorly threaded terminal portion 44, piercing the relatively fixed section 28 and interiorly threaded to receive an electric light 45. The wires 46 and 47, leading to the electric light, extend upward through the tubular conduit. The outer edges of the relatively fixed central leaf section 28 are preferably beveled, as shown, and while the section 28 is exaggerated in thickness in the accompanying drawings, it may be made comparatively thin, so that the table cloth will present a smooth appearance. The central section overlaps the relatively thin members of the adjustable leaf sections, as clearly shown in Fig. 1 of the drawings.

The table cloth 48 is designed to be provided with a central aperture to permit the base of the electric light to be introduced into the socket formed by the terminal portion 44 of the tubular conduit of the supporting frame of the table, and the corners 49 of the table cloth are designed to be weighted with a small bag of shot, or other suitable means. By this construction, the table cloth will hang smooth and adjust itself to the table and will permit the same to be varied in size without necessitating the removal of the cloth. The current to the electric motor is designed to be controlled by a button, or other suitable switch, and the motor will enable the table to be instantly made larger or smaller as desired. The diagonal movement of the leaf sections will cause the relatively thin members to slide on the relatively thick overlapped members.

Although I have illustrated an electric motor for operating the extensible leaves, any other suitable means may be employed for performing this operation.

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

1. An extension table including a supporting frame, and a top composed of a central relatively fixed leaf section, and extensible leaf sections overlapping and slidable on one another and overlapped by the relatively fixed leaf section, and means for simultaneously moving the leaf sections different

distances beyond the central section to vary the size of the table top.

2. An extension table including a supporting frame, and a top composed of a central relatively fixed leaf section, and outer extensible leaf sections having their inner portions overlapped by the relatively fixed section and slidably interlocked with one another, and means for moving the extensible sections inwardly and outwardly to vary the size of the table top without separating the sections.

3. An extension table including a supporting frame, and a top composed of a central relatively fixed leaf section, and outer extensible sections fitted flat against one another arranged in the form of a rectangle and having their inner portions overlapped by the relatively fixed section, each of the extensible sections being provided with a guide slidably receiving the contiguous section and maintaining the extensible sections in rectangular relation, and means for moving the adjustable sections inward and outward without separating the said sections.

4. An extension table including a supporting frame, a top provided with extensible leaf sections fitted flat against one another and slidable inward and outward without separating to vary the size of the top of the table, each composed of a supporting member and a relatively thin member secured to its supporting member and overlapping the supporting member of the contiguous section, and means for simultaneously moving the sections inward and outward.

5. An extension table including a supporting frame, a top provided with extension leaf sections fitted flat against one another and slidable inward and outward to vary the size of the top of the table, each of the said sections being composed of a supporting member, and a relatively thin member secured to the supporting member and slidably interlocked with the supporting member of the adjacent section, whereby the extensible leaf sections are prevented from separating from each other during their inward and outward movements, and means for simultaneously moving the sections inward and outward.

6. An extension table including a supporting frame, and a top provided with extensible leaf sections fitted flat against one another and arranged in rectangular form and movable inwardly and outwardly without separating to vary the size of the top of the table, each composed of a supporting portion, and an overlapping portion slidably interlocked with the supporting portion of the contiguous section, whereby the leaf sections are maintained in rectangular relation, and means movable diagonally of the table for simultaneously adjusting the leaf sections.

7. An extension table comprising a supporting frame, and a top including extensible leaf sections, each composed of a relatively thick supporting member having a groove, and a relatively thin member overlapping the supporting member of the contiguous portion and provided with a guide receiving the overlapped supporting member and slidably interlocked with the groove thereof.

8. An extension table comprising a supporting frame, and a top including extensible leaf sections constituting the outer portion of the top, each composed of a relatively thick supporting member having a groove, and a relatively thin member overlapping the supporting member of the contiguous section and provided with a guide receiving the overlapped supporting member and slidably interlocked with the groove thereof, and a relatively fixed central leaf section overlapping the inner portions of the extensible leaf sections.

9. An extension table comprising a supporting frame, and a top including extensible leaf sections composed of relatively thick supporting members arranged at the corners of the table and provided in their lower faces with marginal grooves, and relatively thin members overlapping the relatively thick members of the adjacent leaf sections and provided with attaching flanges and having outer marginal guides receiving the grooved marginal edges of the overlapped supporting members and extending around the same and provided with flanges operating in the said grooves, whereby the leaf sections are slidably interlocked and maintained in rectangular relation, the attaching flange of each thin member being secured to its companion thick member.

10. An extension table comprising a supporting frame, a top including extensible leaf sections composed of supporting portions and overlapping portions, the supporting portions being arranged at the corners of the table, guide rods arranged diagonally of the table and slidable through the supporting frame and connected at their inner and outer ends with the supporting portions of the extensible leaf sections, and means connected with the extensible leaf sections for simultaneously moving the same inward and outward.

11. An extension table comprising a supporting frame, a top including extensible overlapped leaf sections having supporting portions arranged at the corners of the table and provided with overlapping portions extending over and slidable each on the corner portion of the adjacent leaf section, diagonal guide rods secured to the supporting portions of the adjustable leaf sections and slidable through the supporting frame, brackets connected with the inner ends of the guide rods and provided with guide openings, rack bars arranged in pairs and disposed diagonally of the table, said brackets being se-

cured to one member of each pair of rack bars and slidably receiving the other member, a pinion meshing with the rack bars, and means for rotating the pinion.

12. An extension table comprising a supporting frame, a top including extensible overlapped leaf sections having supporting portions arranged at the corners of the table and provided with overlapping portions extending over and slidable each on the corner portion of the adjacent leaf section, guide rods arranged diagonally of the table and slidable through the supporting frame, inner and outer brackets mounted on the supporting portions of the leaf sections and receiving the ends of the guide rods, rack bars arranged in pairs and disposed diagonally of the table, each rack bar being secured to one of the inner brackets and guided by the opposite inner bracket, a pinion meshing with the rack bars, and means for rotating the pinion.

13. An extension table comprising a supporting frame including a central hollow column, extensible leaves or sections mounted on the supporting frame and arranged in rectangular form and fitting flat against one another and movable inward and outward without separating, rack bars connected with the extensible leaves or sections, a pinion meshing with the rack bar, an electric motor mounted on the supporting frame, a worm gear connected with the pinion, a shaft having a worm meshing with the worm gear, an electric motor for rotating the shaft, and wires connected with the motor and extending through the hollow column of the supporting frame.

14. An extension table comprising a vertical hollow column, a cap fitted on the upper end of the column, a tubular member connected with the cap and extended above the same, a rotary sleeve journaled on the upper portion of the tubular member and supported by the cap and provided with a gear, a table top including extensible leaf sections, and a relatively fixed section mounted on the tubular member, means operated by the said gear for actuating the extensible leaf sections, and means for rotating the sleeve.

15. An extension table comprising a vertical hollow column, a cap fitted on the upper end of the column, a plate arranged at the lower end of the column, a tubular member extending through the column and connected with the plate and with the cap and projecting above the latter and provided at its upper end with an enlargement, a sleeve journaled on the upper portion of the tubular member between the enlargement and the cap and provided with gears, a top composed of extensible leaf sections, and a relatively fixed section secured to the enlarged upper end of the tubular member, means operated by one of the gears of the sleeve for actuating the extensible leaf sections, and means meshing with the other gear for rotating the sleeve.

16. A square top extension table including four extensible side leaf sections fitted flat against each other and extending along the sides of the table and slidable over and interlocked with one another by guiding means arranged in parallelism with the side edges of the table, and means for simultaneously moving the side leaf sections inwardly and outwardly.

17. A square top extension table including four extensible side leaf sections fitted flat against each other and extending along the sides of the table and slidable over and interlocked with one another by guiding means arranged in parallelism with the side edges of the table, a central leaf section overlapping the inner portions of the said leaf sections, and means movable diagonally of the table for simultaneously actuating the side leaf sections to move the same inwardly and outwardly.

18. An extension table including a top composed of a central relatively fixed leaf, and outer extensible leaf sections movable inward and outward without separating from one another to vary the size of the top, a central gear, rack bars arranged in pairs and meshing with the gear and movable in opposite directions, means located at the end portions of each pair of rack bars and connecting one member of each pair with one of the extensible leaves and forming a guide for the other member, and means for rotating the gear wheel.

19. An extension table including a top composed of a central relatively fixed section, and outer extensible leaf sections arranged in rectangular form around the central section and fitted flat against one another and movable inward and outward without separating from one another to vary the size of the top of the table, a centrally arranged gear, diagonally disposed rack bars arranged in pairs and meshing with the gear, means arranged at the end portions of each pair of rack bars and connecting one of the members of each pair with one of the leaves and forming a guide for the other member, and means for rotating the gear.

In testimony whereof I affix my signature in presence of two witnesses.

ADDY S. EL-KOURI.

Witnesses:
S. S. KOURI,
ELIAS SHADID.