J. B. WEEKS.

EXTENSION TABLE.

APPLICATION FILED JULY 10, 1908.

957,637.

Patented May 10, 1910.

3 SHEETS—SHEET 1.

Fig. 1.

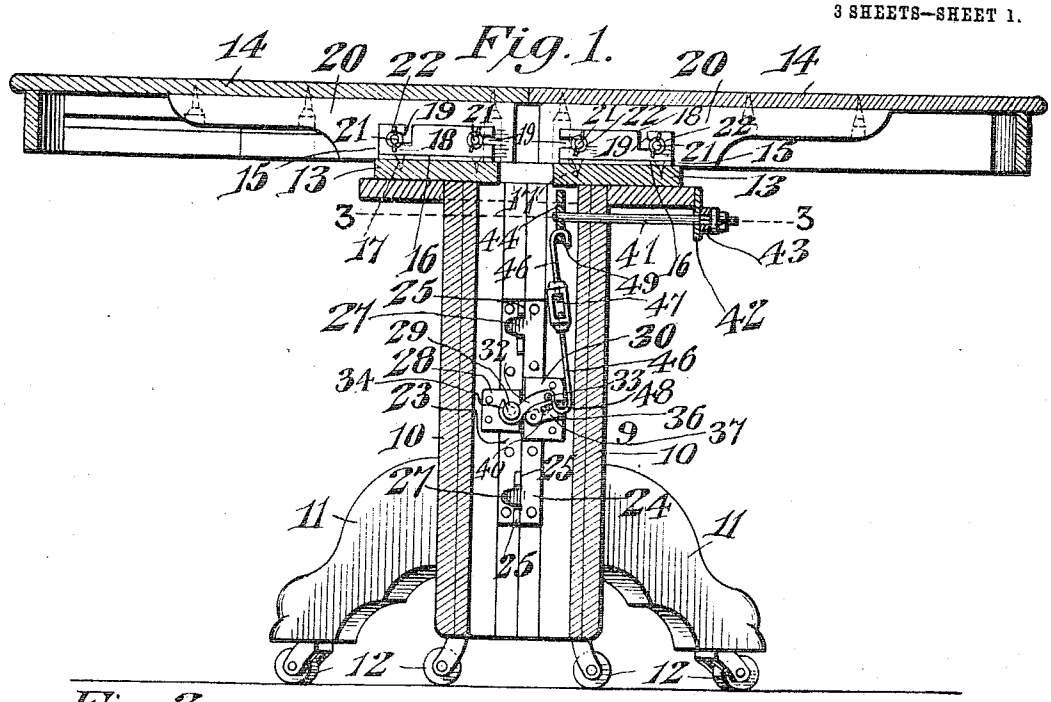
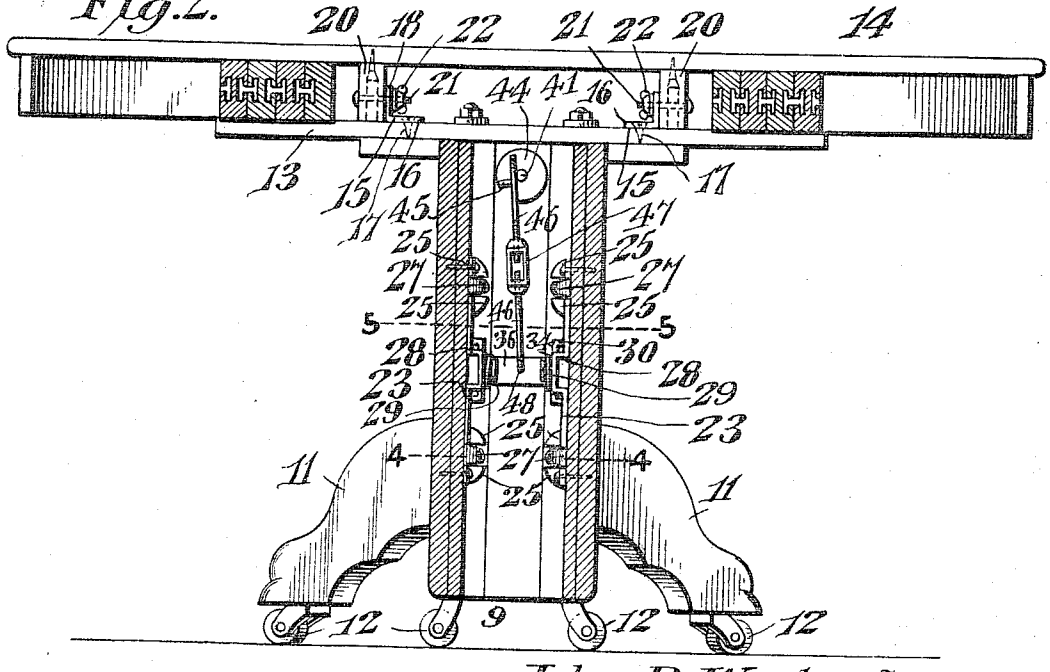


Fig. 2.



Witnesses

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3 SHEETS—SHEET 2.

Fig. 3.

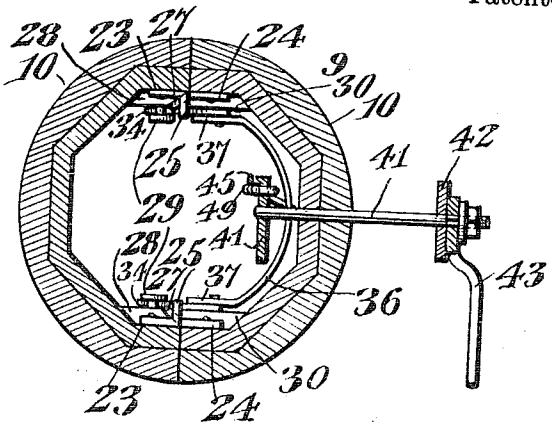


Fig. 4.

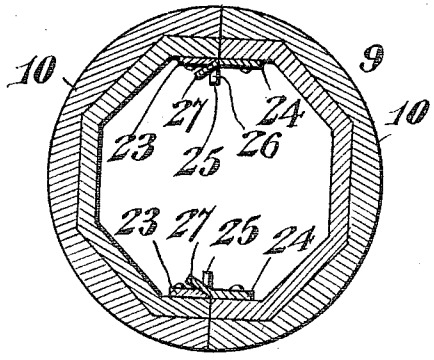


Fig. 5.

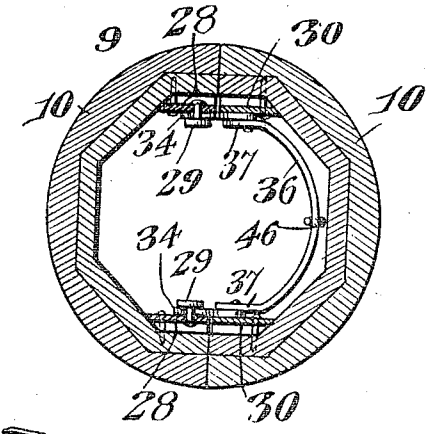


Fig. 6.

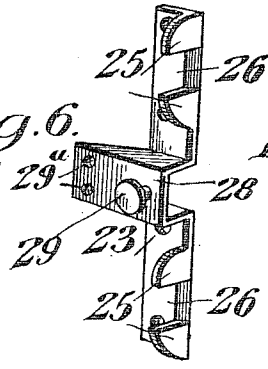


Fig. 7.

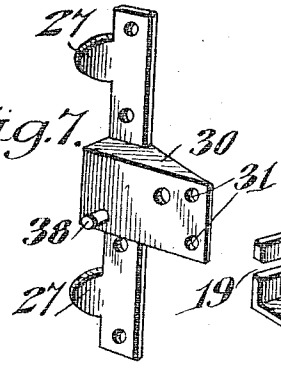
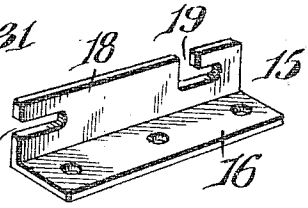


Fig. 8.



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3 SHEETS—SHEET 3.

Fig. 11.

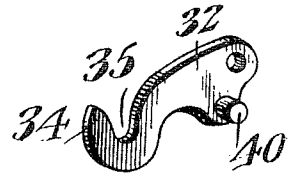


Fig. 9.

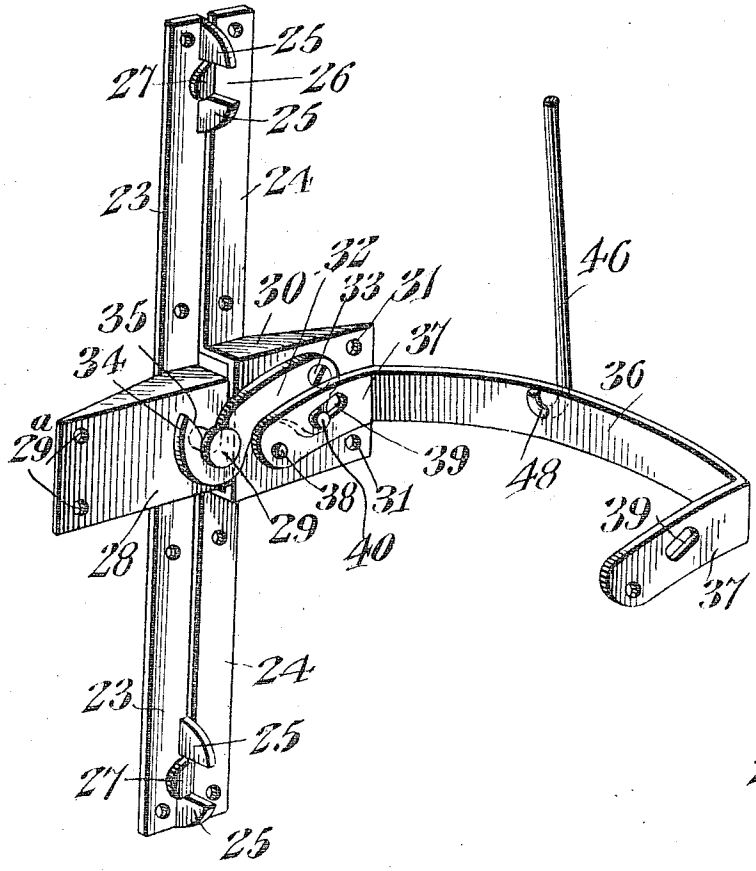
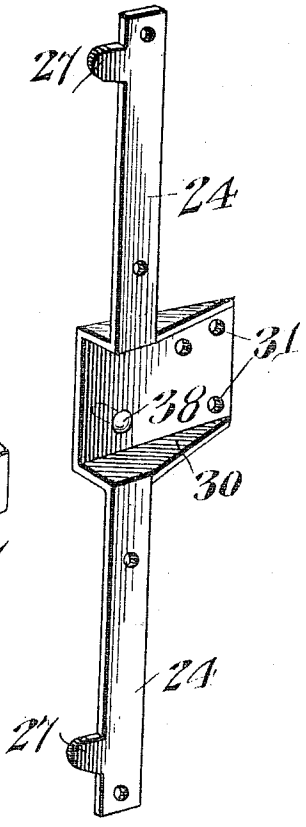


Fig. 10.



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UNITED STATES PATENT OFFICE.

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EXTENSION-TABLE.

957,637. Specification of Letters Patent. Patented May 10, 1910.

Application filed July 10, 1908. Serial No. 442,946.

To all whom it may concern:

Be it known that I, JOHN B. WEEKS, a citizen of the United States, residing at Hanover, in the county of York and State of Pennsylvania, have invented a new and useful Extension-Table, of which the following is a specification.

This invention relates more particularly to tables of the type employing pedestals as a means for supporting the tops.

One of the primary objects of the present invention is to provide novel and effective means for securing the pedestal sections together, said means being very simple and of a character that will permit it to be readily mounted on the table.

A further object is to provide in connection with the locking means, mechanism that will maintain the pedestal sections in proper alined or registering relation when together, and will obviate the necessity of the usual dowels.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a vertical sectional view through an extensible table, showing the improvements applied thereto. Fig. 2 is a cross sectional view at right angles to Fig. 1. Fig. 3 is a horizontal sectional view on the line 3—3 of Fig. 1. Figs. 4 and 5 are respectively horizontal views on the lines 4—4 and 5—5 of Fig. 2. Figs. 6 and 7 are perspective views of a pair of the coacting positioning plates. Fig. 8 is a perspective view of one of the top section attaching plates. Fig. 9 is a perspective view showing two of the plates secured together. Fig. 10 is a rear perspective view of one of said plates. Fig. 11 is a perspective view of one of the tie devices.

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

In the embodiment illustrated, a tubular pedestal 9 is employed, comprising separable sections 10 having outstanding feet 11 mounted on casters 12. These pedestal sections are provided at their upper ends with cross bars 13 on which are mounted separable top sections 14.

For the purpose of securing the top sections to the corresponding pedestal sections, angle plates 15 are provided that have horizontally disposed flanges 16 fastened by screws or other suitable devices 17 to the upper sides of the cross bars 13. The plates thus have upstanding flanges 18 which are provided with open-ended sockets 19. The top sections have supporting bars 20 that rest on the cross bars 13 alongside the upstanding flanges 18, and passing through said supporting bars 20 are bolts 21 having projecting ends that detachably engage in the sockets 19. Clamping nuts 22, threaded on said projecting ends, are arranged to bear against the flanges, and thus effectively maintain the top sections in place, as will be evident.

For the purpose of properly maintaining the pedestal sections 10 with their abutting edges alined, upright plates 23 and 24 are employed that are secured to the inner sides of the said pedestal sections, contiguous to the abutting edges. The plates 23 have inwardly extending upper and lower sets of spaced ears 25, forming sockets 26 between them, while the opposite plates 24 have upper and lower tapered lugs 27 that engage in the sockets, or in other words, between the ears of the sets when the pedestal sections are abutted. With this arrangement, it will be evident that the pedestal sections are held against relative longitudinal and lateral displacement. The plates 23 are furthermore provided between the upper and lower sets of ears 25 with enlargements 28 that are inset and extend in rear of said plates where they are provided with openings 29^a to receive fastening devices. These enlargements furthermore carry inwardly extending headed pins 29. The other plates 24 have correspondingly inset enlargements 30 provided with fastener-receiving openings 31, and pivoted on the enlargements 30 are tie devices 32, the pivots being illustrated at 33, said tie devices having upstanding terminal bills 34 at their free ends and sockets 35 behind the bills, which sockets are arranged to receive the headed pins 29 when the pedestal sections are together. An actuating element for the tie devices 35 is employed that is in the form of a spanner 36 provided with terminal side arms 37 pivoted, as shown at 38 beneath the tie devices 32, the pivots 38 constituting stops that limit the downward movement of said tie devices. The side arms 37 have slots 39 in which are engaged pins 40 projecting from the said tie devices 32. It will thus be evi-

dent that upon the upward movement of the spanner 36, the tie devices will be moved upwardly so as to engage the headed pins 29, while upon the downward movement of said spanner, the tie devices will disengage from the pins so as to permit the separation of the pedestal sections.

Journaled in the upper portion of the pedestal section carrying the spanner and tie devices, is an actuating shaft 41, the inner portion being journaled directly in the pedestal section, the outer portion being rotatably mounted in a depending bracket plate 42 secured to the top of the pedestal. The outer end of the shaft 41 has secured to it, an actuating handle 43. The inner end carries a crank disk 44 from which is stamped a stop lug 45. An extensible and contractible pitman comprising sections 46 connected by a turnbuckle 47, has its lower end engaged, as shown at 48 in the spanner 36, while its upper end has a crank connection 49 with the crank disk 44. The arrangement of this crank connection and the stop lug 45 is such that when the disk 44 is turned to one position, as shown, in Fig. 2, the lug 45 will strike the pitman after the crank connection has passed the upper dead center so that the tie devices 32 will be held engaged behind the pins 29, and the parts will be effectively prevented from accidental movement. At the same time, by turning the handle 43, the pitman can be lowered, thus lowering the tie devices and disengaging them from the pins 29, in order to permit the separation of the pedestal and top sections. The turnbuckle 47 is employed to take up looseness and wear between the various parts.

There are many decided advantages for the present structure. In the first place, the plates 23 and 24 with the elements carried thereby, beside constituting positioning means for the pedestal sections, also act as supports for the locking means for said pedestal sections, and they can be applied with ease and expedition, and with all the parts assembled thereon. The actuating mechanism for the lock is also very simple, and constitutes in itself an automatic lock.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. In an extension table, the combination with a tubular pedestal comprising separable sections, of separable top sections mounted thereon, a tie device movably mounted on one pedestal section and detachably engaging the other pedestal section, a rotary actuating device for the tie device, a pitman connected to the tie device and having a crank connection with the rotary actuating device, and a stop carried by the actuating device and engaging the pitman to limit the movement of the actuating device and thereby maintain the tie device in a locked position.

2. In an extension table, the combination with a tubular pedestal comprising separable sections, of separable top sections mounted thereon, a tie device pivotally mounted on one pedestal section and detachably engaging the other pedestal section, a rotary actuating shaft journaled in the upper portion of the pedestal section carrying the tie device and having a crank disk at its inner end, an extensible and contractible pitman connected to the latch and having a crank connection with the disk, and a stop lug projecting from the disk into the path of movement of the pitman and arranged to engage the same after the crank has passed its upper dead center and thereby maintain the tie device in a locked position.

3. The combination of separable members, a hook-shaped latch having one end pivoted on one of the members and the other end extending over the second member, a device on the second member with which the hook engages by an upward movement, an actuating element pivoted on the first member at a point under the latch and extending beyond the pivoted end of the latter, connecting means between the element and latch whereby an upward or downward movement of the element produces a corresponding movement of the latch, and operating means connected with the element.

4. In an extension table, the combination with a tubular pedestal comprising separable sections, of a sectional top carried thereby, a plate secured longitudinally to the inner side of one pedestal section and having inwardly extending lips forming a socket between them, a plate secured longitudinally to the inner side of the other pedestal section and having a lug that engages between the lips, and means for detachably securing the sections together.

5. The combination of relatively-movable members, oppositely-disposed latches pivoted on one member, means on the other member with which the latches engage, a device pivoted on the first member at points below the latches, slot and pin connections between the device and latches whereby a downward movement of the device causes the latches to simultaneously drop out of engagement with the said means, and an actuating mechanism connected with the said

device and including means for automatically locking the latter in raised position.

6. In an extension table, the combination with a tubular pedestal comprising separable sections, of a sectional top carried thereby, an upright plate secured to the inner side of one pedestal section and having upper and lower sets of spaced inwardly extending lips forming between them sockets, a plate secured to the inner side of the other pedestal section and having upper and lower inwardly extending lugs that engage in the sockets, a projecting pin carried by one of the plates, a tie device pivoted on the other plate and detachably engaging the pin to secure the pedestal sections together, and means for actuating the tie device.

7. The combination of relatively movable members, oppositely-disposed latches pivoted on one member, means on the other member with which the latches engage, a device pivoted on the first member at points below the latches, slot and pin connections between the device and latches whereby a downward movement of the device causes the latches to simultaneously drop out of engagement with the said means, an actuating mechanism connected with the said device and including a rock shaft, a crank thereon, a pitman connected with the device and crank, and means on the crank for supporting the pitman in raised position and at one side of the upper dead center of the crank.

8. In an extension table, the combination with a tubular pedestal comprising separable sections, of a tie device movably mounted on one section and detachably engaging the other section, a swinging device pivoted on the section carrying the tie device and located alongside said tie device, one of the devices having a slot, the other having a pin engaging in the slot, separate parallel pivots for the said devices, a pitman connected to the swinging device at the side of the slot opposite from the pivot of the device, for actuating the same, a rock shaft, a crank on the rock shaft connected with the pitman, and means engaging the pitman for supporting the same in raised position against the weight of the said swinging device to normally lock the tie device.

9. In an extension table, the combination with a tubular pedestal comprising separable sections, of a tie device movably mounted on one section and detachably engaging the other, said device being arranged to swing downwardly from locking to unlocking position, and a swinging actuating device for the tie device engaged with the same and having its pivot located below and in the path of movement of the tie device, said actuating device being mounted to swing downwardly during the unlocking of the tie device and limited in its downward movement by the tie device engaging the said pivot, and means for operatively connecting the two devices.

10. In an extension table, the combination with a tubular pedestal comprising separable sections, of plates fastened to the same, pins projecting from the plates of one section, tie devices pivoted on the plates of the other section and detachably engaging the pins when the sections are together, a spanner having side arms pivoted on the plates carrying the tie devices, and engaging the same for effecting their swinging movements into and out of engagement with the pins, and an actuating device mounted on the pedestal section having the tie devices and connected to the spanner.

11. In an extension table, the combination of a pedestal composed of separable sections, plates secured to the respective sections and having interlocking parts for holding the sections in alined position, said plates having offset intermediate portions arranged flush with each other, a tie device mounted flatwise on one of the offset portions, means on the other offset portion with which the device engages for holding the sections together, an actuating means mounted on the plate carrying the tie device, and means operatively connected with the tie device and actuating means for moving the former to locking and unlocking position by the latter.

12. In an extension table, the combination of a pedestal composed of separable sections, plates mounted on the respective sections, a pivoted tie device mounted on one of the plates and arranged to swing downwardly to unlocking position, a member on the other plate with which the device engages, an actuator pivotally mounted on the plate carrying the said device and overlapping the latter, separate pivots for the device and actuator, means for operatively connecting the actuator with the tie device to permit the latter to swing downwardly or upwardly during a similar movement of the actuator, the said actuator being arranged to swing downwardly to release the tie device, and an operating mechanism arranged to raise the actuator for locking the tie device.

13. In an extension table, the combination of a pedestal composed of separable sections, a rock shaft, a crank thereon, a pitman connected with the crank and depending therefrom, means carried by and movable with the crank and with which the pitman engages for holding the latter in raised position and at one side of the dead center of the crank, and a locking device for holding the sections of the pedestal together when the pitman is in raised position.

14. In an extension table, the combination of separable pedestal sections, a plurality of tie devices for locking the sections together and mounted on one section to swing down-

wardly, a swinging member operatively connected with both tie devices and pivotally mounted on one of the sections to swing downwardly for unlocking the latter, a single pitman connected with the member, and an operating means connected with the pitman and arranged to automatically lock the latter in raised position against the downward tendency of the said member.

15. In combination, a sectional pedestal, a catch attached to one pedestal section, a retainer on the other pedestal section, a crank mounted above the catch, a link pivotally connected to said crank and the catch, for operating the latter from the former; and a stop for arresting the locking movement of the link when its pivot on the crank passes the dead center, substantially as described.

16. In combination, a sectional pedestal for extension tables, a catch pivoted on one pedestal section, a retainer on the opposite section adapted to be engaged by said catch, a rock shaft mounted above the pedestal section containing the catch, a crank plate on said shaft, a link pivoted eccentrically to said plate and connected with the catch, and a stop on said plate adapted to engage the link and arrest the rotation of the plate when the link pivot passes the dead center, substantially as described.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN B. WEEKS.

Witnesses:
JOSIAH W. GITT,
GUY W. BANGE.