

J. COLLINSWORTH.

TABLE.

APPLICATION FILED MAR. 22, 1912.

1,052,799.

Patented Feb. 11, 1913.

2 SHEETS-SHEET 1.

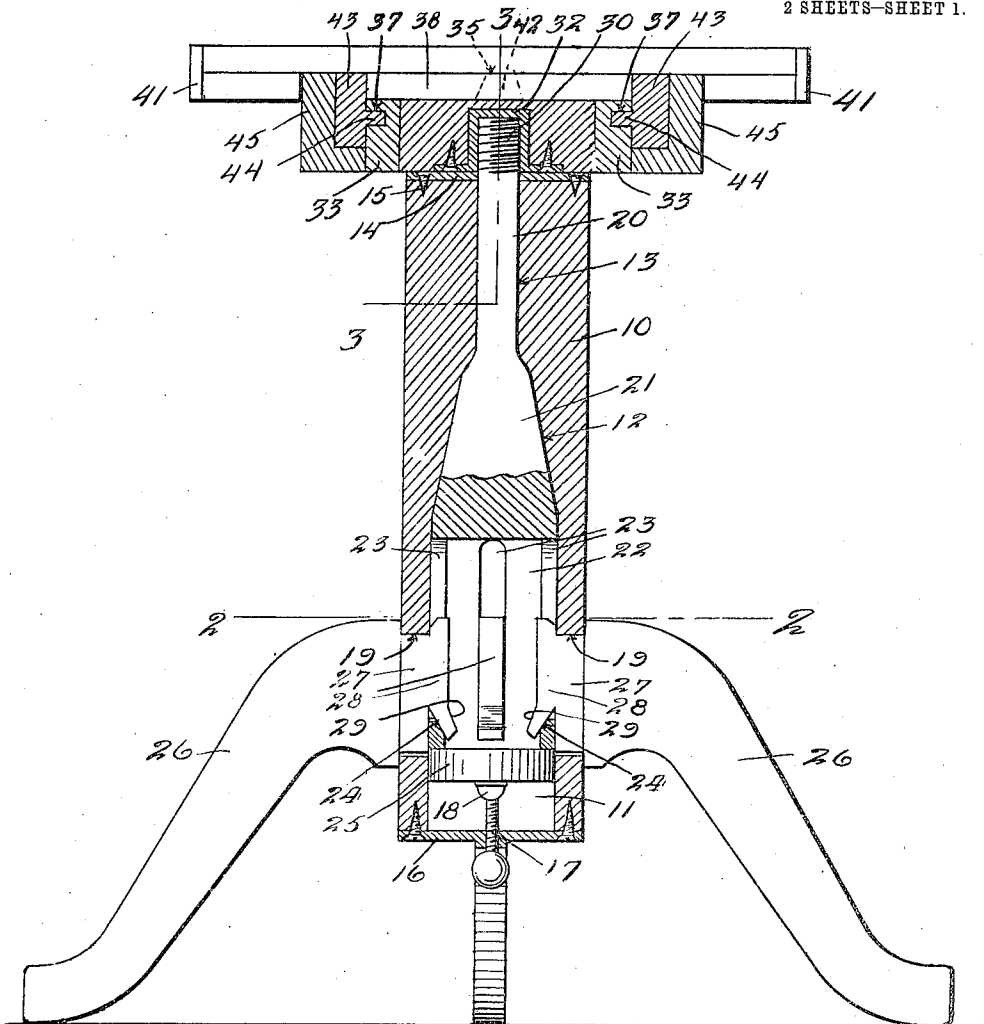


Fig. 1.

Witnesses
J. Milton Foster
Charles S. Wilson

Inventor
Jack Collinsworth

By Chas. A. Briscoe
Attorney

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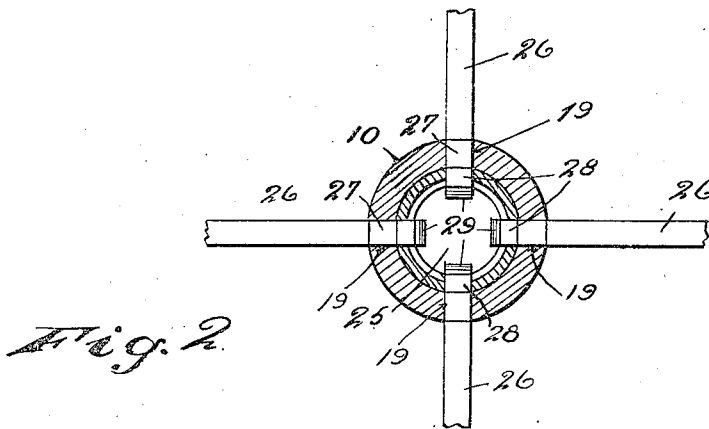


Fig. 2

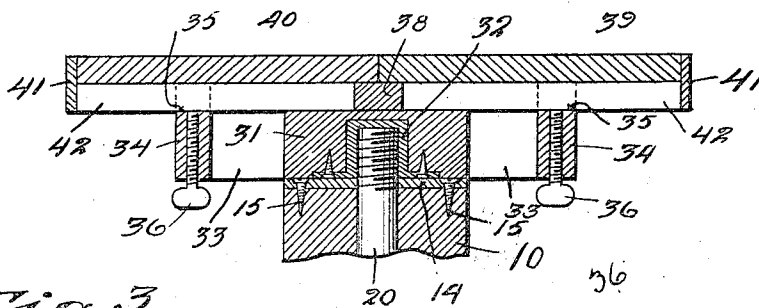
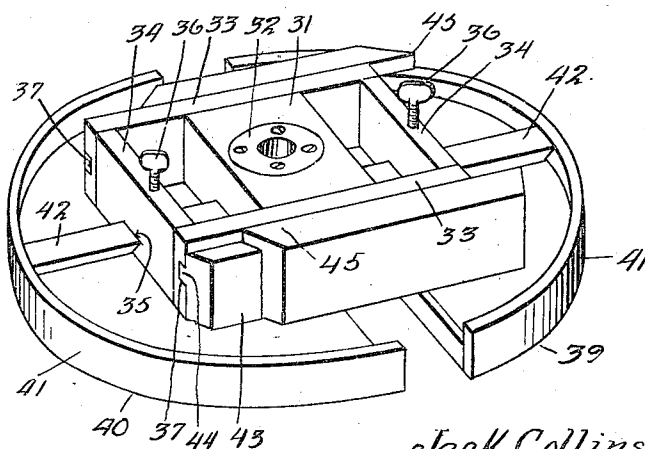


Fig. 3

Fig. 4



Witnesses

J. Milton Jester

Charles P. Wilson

Inventor

Jack Collinsworth,

By

Chas. A. Priscoe

Attorney

UNITED STATES PATENT OFFICE.

JACK COLLINSWORTH, OF HUNTINGTON, WEST VIRGINIA.

TABLE.

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Specification of Letters Patent.

Patented Feb. 11, 1913.

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To all whom it may concern:

Be it known that I, JACK COLLINSWORTH, a citizen of the United States, residing at Huntington, in the county of Cabell and State of West Virginia, have invented certain new and useful Improvements in Tables, of which the following is a specification.

This invention relates to tables and particularly to that type known as pedestal tables, and has for its object to provide a means whereby the table may readily be extended and retained securely in its extended or adjusted position.

This invention furthermore provides a means whereby the various elements of the table may be disconnected for the purposes of packing, storing, etc.

It has been found that, in tables now in use, the legs thereof which are attached by screws or other means become loosened, thus making the table very insecure. By the application of the present invention it is possible for the legs to be secured thereto without the use of glue or other insecure attaching means, by means of a clamping action which will readily engage the legs of the table against all movement or possible looseness.

Another objectionable feature of the tables now in use is that the top or bearing surfaces thereof often become loosened upon the pedestal, and must be permanently secured to the pedestal in order to prevent this loosening action. The present invention overcomes this feature in providing a top or bearing surface which is removable from the pedestal and at the same time is rigidly and positively secured thereto.

Another object of the present invention is to provide an extension table of the pedestal type which will not necessitate the construction of the pedestal in sections as is now the practice.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts all as will be hereinafter more fully described, claimed and illustrated in the accompanying drawings, in which:

Figure 1 is a central vertical section of a table constructed in accordance with the present invention. Fig. 2 is a horizontal section taken along the line 2—2, Fig. 1. Fig. 3 is a vertical section taken along the line 3—3, Fig. 1. Fig. 4 is a perspective

view of the top illustrating the same inverted and partially extended.

Reference being had more particularly to the drawings, 10 indicates the pedestal constructed in accordance with the present invention having a large passage 11 at the lower terminal thereof, said passage having its extremity tapered as at 12, the tapered portion opening into a reduced passage 13 which extends to the upper terminal of the pedestal 10. The upper terminal of the pedestal has a plate 14 secured thereto by means of screws 15, said plate being orificed to register with the opening 13 in the passage 10. The lower terminal of the pedestal 10 is closed by a plate 16 in which operates the threaded screw 17 provided at its inner terminal with a head 18, the utility of which will be hereinafter more fully described. The pedestal 10 is provided adjacent to its lower terminal with the vertical slots 19, said slots being diametrically disposed and of any suitable number illustrated in the drawings as 4. These slots open into the large opening 11 at the lower terminal of the pedestal 10 and provide a means whereby the legs may be secured to said pedestal. A shaft 20 is mounted within the reduced passage 13 of the pedestal 10, and is provided at its lower terminal with a tapered enlargement 21 which conforms in shape to the tapered opening 12 of the passage 11. This tapered enlargement 21 carries a tubular portion 22 at its lower terminal which is located within the passage 11 in the pedestal 10, said tubular portion being provided with a plurality of slots 23 which at all times register with the openings 19 of the pedestal 10. The lower terminals of these slots are beveled inwardly for the securing member of the legs, as will hereinafter be more fully described. A follower plate 25 mounted for reciprocation in the passage 11 of the pedestal 10 operates against a lower extremity of the tubular extension 22 of the shaft 20, said follower plate being reciprocated and held in its operative position by the screw 17, the head 18 of which operates concentrically with said follower plate. It will be clearly seen that the movement of the screw 17, and consequently the follower plate 25, in an upward direction, will cause the shaft 20, enlargement 21 and tubular extension 22 to reciprocate in a like direction whereby the reverse movement on the part of the screw 17 and

the follower plate 25 will cause these elements to drop by gravity.

The legs 26 radiate from the lower terminal of the pedestal 10 and are secured in the slots 19 and 23 of the pedestal and tubular member 22, respectively. Each leg comprises a suitable body portion 26 having a reduced extension 27 formed upon the inner terminal thereof, said extension being of sufficient length to fit into the slots 19 and rest flush therein. These extensions carry securing members 28 upon their inner surfaces, said securing members being staggered with respect to the extensions 28. Each securing member 23 is provided at its lower terminal with an inwardly sloping projection 29 which is adapted to rest against the tapered terminal of the cooperating slot 23. The extensions 28 operate in the slots 23 and are of such construction that as the follower plate forces the tubular member 22 upwardly, a clamping action exists between the beveled lower terminals 24 of the slots 22 and the sloping projections 26 of the attaching members 28, the upper terminals of said attaching members resting against the inner surface of the head 18 adjacent to the upper terminals of the slots 19. It will readily be seen that the legs are thus clamped in their operative positions.

The upper terminal of the shaft 20 is threaded as at 30 for the reception of the table top as will be hereinafter more fully described. The table top is secured to the shaft 20 by means of a block 31 provided with an inset thimble 32 said thimble being internally threaded to receive the threaded terminal of said shaft 20. This block is surrounded by a rectangular frame comprising the longitudinal or side members 33 and the transverse or end members 34. These transverse end members are provided with the dove-tailed grooves 35 arranged transversely therein through which project the screws 36 which operate through the end members 34. The side bars are provided with centrally disposed longitudinally extending grooves 37, said longitudinal grooves, in combination with the dove-tailed grooves 35, being adapted to receive and secure the table to the frame constituting the block 31, the side bars 33 and the end bars 34. The upper surface of the block 31 has secured thereto a transverse dividing bar 38 against which the carrying members of the top of the table abut. The table top comprises two sections 39 and 40, said sections being semicircular in form and adapted to be supported for the purpose of inserting leaves therebetween. Each section is provided with a downwardly extending protecting plate 41 which is adapted to seal and protect the mechanism located under the top whereby the same is secured to the pedestal. Likewise each sec-

tion is provided with a centrally disposed dove-tailed bar 42 which is adapted to be received in the grooves 35 of the end pieces 34 of the connecting frame and to be retained therein by the pressure of the set screws 36. In this manner the center portions of the table sections 39 and 40 are secured to the frame composed of the side members 33, end bars 34 and the block 31, and are guided for their movement therein. As an additional attaching means, the section 40 is provided with a member 43 upon each side thereof and parallel to the dove-tail bar 42, said bars 43 projecting beyond the inner edge of said section. These bars are provided with the longitudinal projections 44 which are adapted to reciprocate in the grooves 37 of the side members 33 of the frame. The opposite section 39 is provided with a pair of similar members 44 which are parallel to the central dove-tail member 42 and are provided with the inwardly extending flanges 45, said flanges being adapted to bear against the upper edges of the bars 43 carried by the opposite section 40, while the main body portion of the bars 44 lies flush with the sides of the bars 43.

From the foregoing it will be clearly understood that by loosening the set screws 36 the sections 39 and 40 may be separated to any desired distance after which the set screws may be tightened to prevent any movement on the part of the sections. The threaded engagement of the frame with the shaft 20 prevents any displacement or movement on the part of the shaft and also creates an additional locking means for the legs.

Having thus fully described my invention, what I claim as new and desire to secure by Letters-Patent of the United States, is:

1. In a table of the character described, the combination with a tubular pedestal internally tapered, a plate transversely of the top of said pedestal, a similar plate at the bottom thereof, a shaft mounted within said pedestal tapered to conform to the interior thereof and secured by said plates, a plurality of radially extending legs, extensions formed with the legs and adapted to enter slots formed in the pedestal member and the shaft, securing members on the inner surface of the extensions, a follower plate centrally of the tubular pedestal, and clamping means threaded in the bottom plate to force the follower against the shaft and bind said legs between said shaft and said pedestal.

2. In a table of the character described, a tubular pedestal, plates transversely of the top and bottom of said pedestal, a shaft provided with a tubular lower portion mounted therein and secured by said plates, said pedestal and the tubular portion of

said shaft provided with a series of inwardly beveled slots registering with each other, a plurality of legs spaced radially apart, extensions formed with the extremities of the legs and adapted to enter the slots in the pedestal and shaft, securing members at the extremities of the extensions, a follower plate mounted within the extensions below the legs, and clamping means adapted to

force said follower against said tubular shaft to bind the several legs within said pedestal and said shaft.

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

JACK COLLINSWORTH.

Witnesses:

LILLIE M. WELCH,
NORWOOD MASSAY.