G. BALDI.

TABLE.

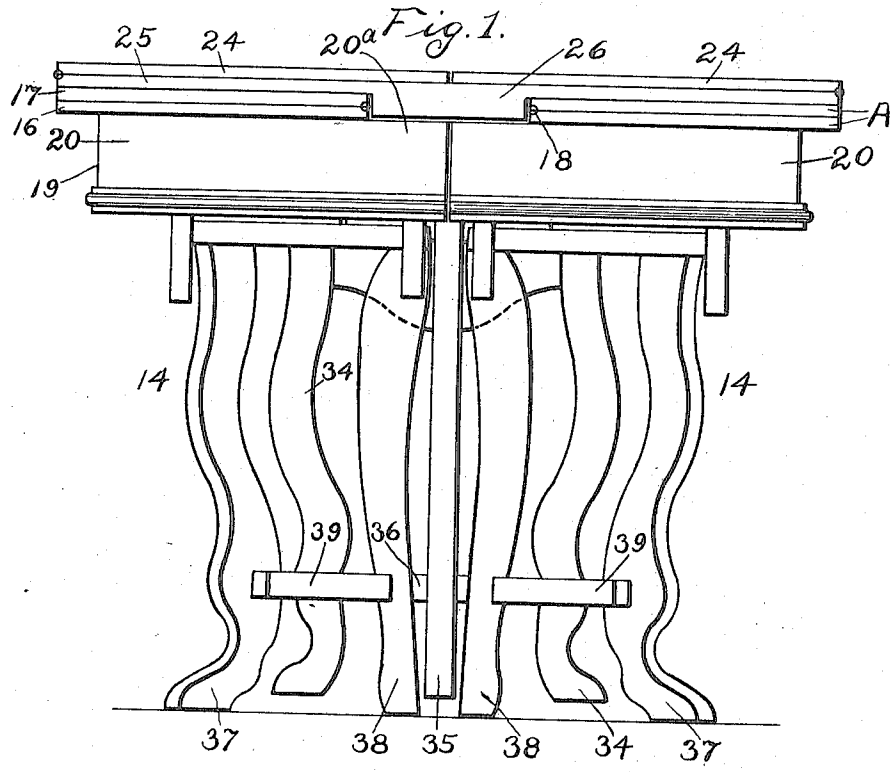
APPLICATION FILED OCT. 5, 1915.

1,197,172.

Patented Sept. 5, 1916.

3 SHEETS—SHEET 1.

Fig. 1.



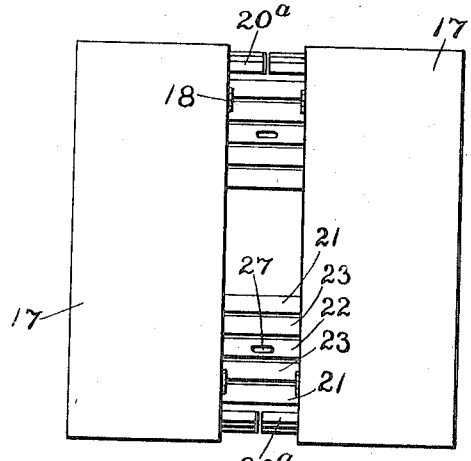


Fig. 2.

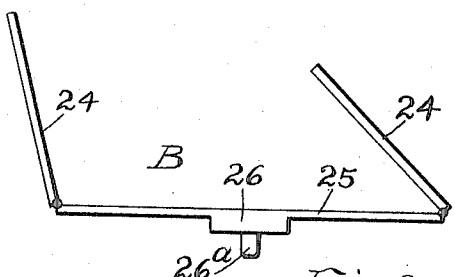


Fig. 3

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3 SHEETS—SHEET 2.

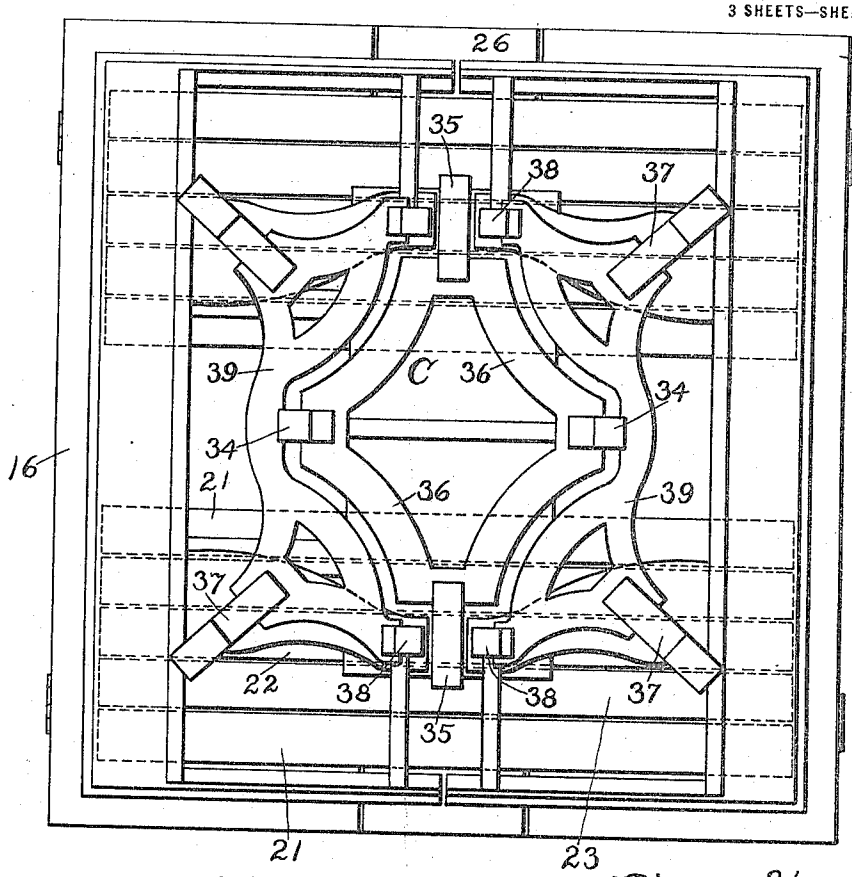


Fig. 4.

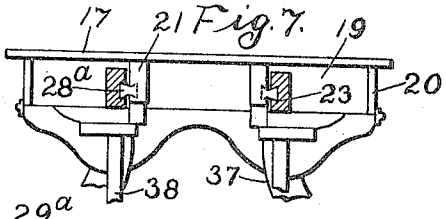


Fig. 7.

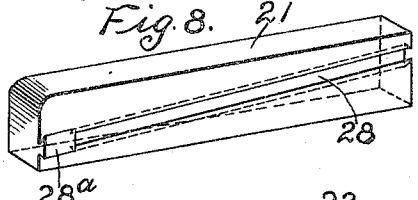


Fig. 8.

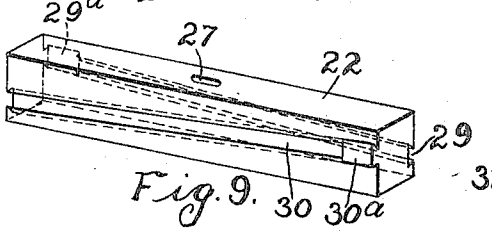


Fig. 9.

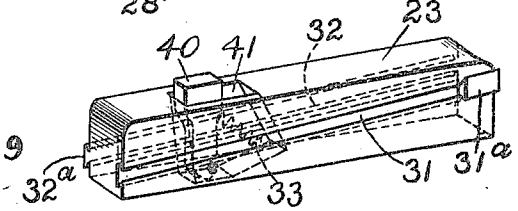


Fig. 10.

WITNESSES:

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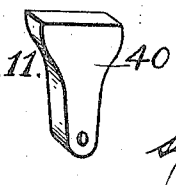


Fig. 11.

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3 SHEETS—SHEET 3.

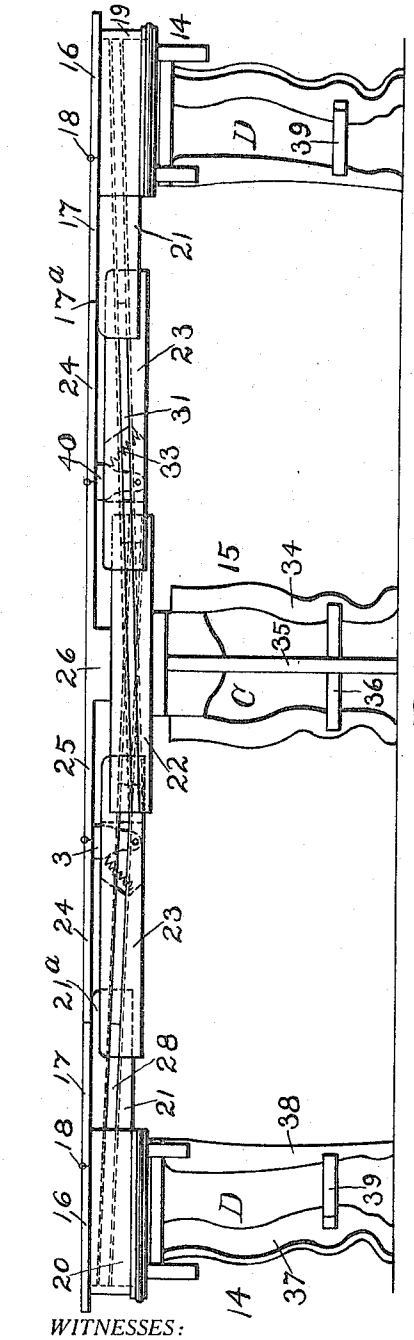


Fig. 5.

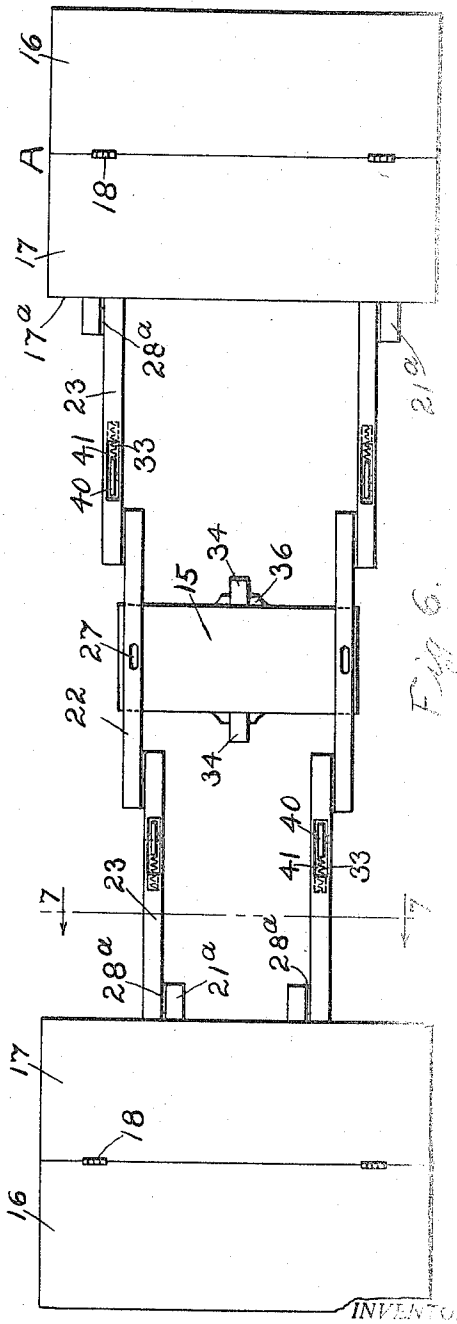


Fig. 6.

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UNITED STATES PATENT OFFICE.

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TABLE.

1,197,172. Specification of Letters Patent. Patented Sept. 5, 1916.

Application filed October 5, 1915. Serial No. 54,136.

To all whom it may concern:

Be it known that I, GIOVANNI BALDI, a subject of the King of Italy, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Tables, of which the following is a full, clear, and exact description, reference being had to the annexed drawings.

My invention relates more particularly to tables of the extensible type; and has for one of its objects to provide a construction of extension table wherein the legs which support the central table section when the table is extended are raised or elevated from the floor as the end table sections are brought together. Another object of my invention is the utilization of a novel top leaved section in both the shortest and longest positions of the table, together with the provision of means whereby said section is maintained against displacement when disposed in either of these positions. A further object is to produce a table capable of being used in two positions of extension.

The invention also contemplates certain novel details of construction, combination and arrangement of parts of my improved extension table whereby certain objects are attained, as will be more fully described hereinafter and pointed out in the claims.

These, together with such other objects as are incident to my invention, I obtain by means of a construction illustrated in preferred form in the accompanying drawings, wherein:—

Figure 1 represents a side elevation of my improved extension table when in closed or shortest position.

Figure 2 is a top plan view of the same with the top leaved section removed.

Figure 3 is a side elevation of said section.

Figure 4 is a bottom plan of the table as shown in Figure 1.

Figure 5 represents a side elevation of the table when extended to its greatest length.

Figure 6 is a plan view of the same, when the top leaved section is removed to better disclose certain parts.

Figure 7 is a transverse section through one of the end table sections; and

Figures 8, 9, 10 and 11 are enlarged views detailing the extension slide and coöperating members.

Referring to the drawings, the numerals 14, 14, indicate the two end table sections and 15 the central table section; the sections being provided, as shown, with a preferred construction and arrangement of supporting legs, which, as more fully hereinafter described, permit a closely nested relation between the legs of the table sections when the table is in its shortest position. Each end table section comprises an end piece 19 and two side pieces 20 which together carry a fixed leaf 16 to which a folding leaf 17 is attached by hinges 18, thus forming an end leaf section A. The side pieces 20 project beyond the inner marginal edges of the sections A when in folded position, as is indicated at 20^a in Figures 1 and 2.

Connected with the leaf 16 of each end section are two fixed slide members 21 upon which the leaf 17 rests when the table is extended, the end portions 21^a of the slide sections extending a short distance beyond the free edge of the leaf 17 when unfolded, as more clearly shown in Figure 6. The central table section 15 has connected with it the two extension slides 22, and slidably engaging them and the slide sections 21 are the two pairs of extension slides 23, each pair being located intermediate its adjacent end table section and the central table section. Preferably the slide members 21, 22, 23, are of such a length that when telescoped upon each other in parallel relation the free marginal edges of the side pieces 20 of one end table section 14 have an abutting relation with the corresponding side pieces of the other section, and when thus positioned the ends of the said members register with the end pieces 19, as more clearly shown in Figure 4, at the same time leaving a space, in Figure 2, between the hinged marginal edges of the folded leaf sections A.

Referring now more particularly to Figures 1, 2 and 3, it will be seen that I provide a top leaved section, indicated generally at B, in Figure 3, positioned upon the folded leaf sections A, and comprising the two upper folding leaves 24, 24, hingedly connected to the lower leaf member 25 of the section, which latter is formed with a depending filler strip portion 26 adapted to fit in and fill the space between the sections A when the table is in its shortest position. The outer marginal edges of the leaf sections when thus related are in similar vertical planes, as indicated in Figure 1. Pro-

jecting downwardly from the filler strip 26 are dowel pins 26ª adapted to fit in corresponding recesses 27 formed in the central extension slides 22, and coöperate therewith to maintain the top leaf section B against displacement in a transverse horizontal plane.

If desired the table may be extended to an intermediate position where the inner marginal edges 17ª of the leaves 17 meet when unfolded to rest upon the slide members 21. A further extension may be had by extending the table to the position shown in Figure 6, in which case the space between the marginal edges 17ª is bridged by the leaf section B as illustrated clearly in Figure 5. Thus the top leaf section B becomes, when unfolded, the intermediate leaf section in the longest position of the table, and, as indicated, is employed both in the shortest and longest table positions. This convenient utilization of this leaf section will be apparent.

The slidable engagement of the extension slide members is attained by providing them with coöperating dovetailed grooves and tenons on their vertical faces. An important feature of my invention is to so incline the grooves that when telescoping the table the leg or legs of the central table section are gradually elevated or raised from the floor, and, on the other hand, when the table is extended to its longest position the central leg or legs support this section. With this end in view, each of the slide members 21 has one face provided with a groove 28 inclining upwardly in a direction away from the central table section and a tenon 28ª (Figure 8) at the lower end of the groove. Figure 9 clearly shows the peculiar grooving of the central slide members 22, each of which has its vertical faces formed with inner and outer oppositely inclined grooves, indicated at 29 and 30, respectively, and provided with tenons 29ª and 30ª at the upper end of each of said grooves. Each of the intermediate slide members 23 is in turn provided on its vertical faces with inner and outer inclined parallel grooves 31 and 32, and adapted to slidably engage corresponding grooves in the slide members 21 and 22 are tenons 31ª and 32ª respectively provided at opposite ends of the grooves 31, 32.

Figure 10 illustrates the relation of tenons and grooves of one of the members 23, at the right of the central table section 15 in Figures 6 and 7, it being understood of course that the positioning of the corresponding tenons in the like members at the left of that section is reversed, in view of the telescopic relation of the slide members. It will be apparent from the showing in Figure 6 that the tenons 28ª have a slidable engagement with the members 23, and also the tenons 29ª and 30ª at the ends of the members 22 with the members 23, the tenons serving as co-acting stop members when the table is fully extended. When thus positioned the grooves extend in a straight but downwardly inclined plane from either end of the table to that end of the central slide member 22 terminally located on the opposite side of the central table section 15, the central slide member 22 being in a plane lower than that of the other members 23 and 21. (See Figure 7.)

This figure illustrates the employment of the top leaf section B, when unfolded, as an intermediate leaf section for the extended table, in which case the depending portion 26 resting on the upper face of the slide member 22 maintains the central portion of the section in the same plane as its ends which rest upon the end portions 21ª of the horizontal fixed slide members 21, and therefore in the same plane as the other leaf members forming the sections A. As before the dowel pin 26ª rests in the recess or slot 27. In order to give support to the section B when the parts 24 are hinged to the part 25, I provide a supporting abutment or lug 40 pivotally mounted in and projecting from a recess 41 formed in each of the slides 23, and this lug is yieldingly held in a vertical position by a light spring 33. When the table is being telescoped to its shortest or closed position, the abutment 40 taking against the inner edge of the leaf 16 yields and moves downwardly into the recess to clear the leaf.

From the foregoing, it will be obvious that I provide a simple and efficient construction of extensible table, having comparatively few parts, and wherein the leaves constituting the table top in its shortest position may be utilized to form the table top in its longest position, thus eliminating the disadvantages of the ordinary type of extension table and without adding to the cost.

If desired, the peculiar arrangement of supporting legs may be employed with advantage. The central leg section C (Figure 4) comprises the legs 34, 34, and 35, 35 disposed respectively in the longitudinal and transverse median lines of the table. These legs are carried by the table section 15 and are connected together by the rectangular piece 36, the legs being mounted at the corners thereof, which extend toward the centers of the four marginal side edges of the table top. The end leg sections D are carried by the end table sections 14, and as shown, each comprises the outer legs 37, 37 and inner legs 38, 38, associated together by a connecting angular piece 39 conforming to the angle presented by that portion of the piece 36 which connects one of the legs 34 to the transverse legs 35. In this

way, as will be apparent from the showing in Figure 4, a closely nested arrangement of the leg sections is obtained with a corresponding increase in leg space under the table.

From the foregoing, the essential features, elements and operation of the extension table, together with its simplicity and other advantages thereof, will be clearly apparent to those skilled in the art.

I do not intend to limit myself to the precise details of construction or to the exact arrangement of the parts as shown, since it will be obvious that variations therefrom may be made without departing in any way from the spirit and scope of my invention as more particularly pointed out in the appended claims.

Having thus described my invention and illustrated its use, what I claim as new and desire to secure by Letters Patent, is the following:—

1. In an extension table, the combination of end table sections and an intermediate table section, leaves carried by said end table sections, and a leaf section adapted to rest upon said end leaves in the closed position of the table, said table sections having supporting legs and provided with extensible slide members disposed in a fixed relation with said legs and formed with inclined grooves and tenons slidably engaging said grooves whereby the intermediate table section travels in a plane inclined to the horizontal plane of the travel of the end sections, the legs of the end sections supporting the intermediate section when the table is in its shortest position, and said leaf section extending over the slide members in the extended position of the table and provided with means for maintaining the section in the plane of the leaves of the end sections when extended and for positioning it with reference to said leaves in the closed position of the table.

2. In an extension table, the combination of end table sections and an intermediate table section, end leaves carried by said end table sections, a leaf section adapted to rest upon the end leaves in the shortest position of the table, and extension means comprising fixed slide members arranged in pairs and secured to the end table sections and having inclined grooves and tenons, and movable slide members associated with the intermediate table section and each formed in its vertical faces with tenons and reversely inclined grooves, said grooves and tenons coöperating whereby the intermediate table section travels in a plane inclined to the horizontal plane of travel of the end sections, and said leaf section extending intermediate the end leaves in the extended position of the table and provided with means for maintaining the section in the plane of the end leaves when extended and for positioning it with reference to said end leaves in the closed position of the table.

3. In an extension table, the combination of end table sections and an intermediate table section, each of said end table sections comprising a supporting frame and a leaf and slide members immovably secured with reference to said supporting frame to travel in a horizontal plane in the extension and closure of the table, said intermediate table section comprising slide members and a supporting frame therefor, the slide members of said sections being formed with coöperating inclined grooves and groove engaging tenons whereby the intermediate table section travels in a plane inclined to the horizontal plane of travel of the end sections, and an intermediate leaf section adapted to rest upon the end table section leaves when the table is closed and having an engaging portion engaging a slide member in both the closed and open positions of the table.

4. An extension table, comprising end table sections and an intermediate table section, said sections having supporting legs and provided with movable slide members secured thereto and constructed and arranged to elevate the leg or legs of the intermediate table section when the table is in its shortest position and to lower said leg or legs to the floor plane in the longest position of the table, there being fixed slide members carried by the end table sections and cooperating with the movable slide members, a fixed leaf carried by each of the end table sections, said leaves being spaced apart at their inner marginal edges in the shortest position of the table, and a top leaf section adapted to rest upon said fixed leaves and centrally formed with a depending filler strip portion disposed in the space between the said leaves, said top leaf section being adapted when the table is extended to occupy a position intermediately of the fixed leaves with its ends supported by the fixed slide members and the filler strip portion by the movable slide members.

In testimony whereof I have hereunto signed my name and affixed my signature.

GIOVANNI BALDI.

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