June 11, 1935. A. HEATH 2,004,696

TABLE CONSTRUCTION

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Fig. 1.

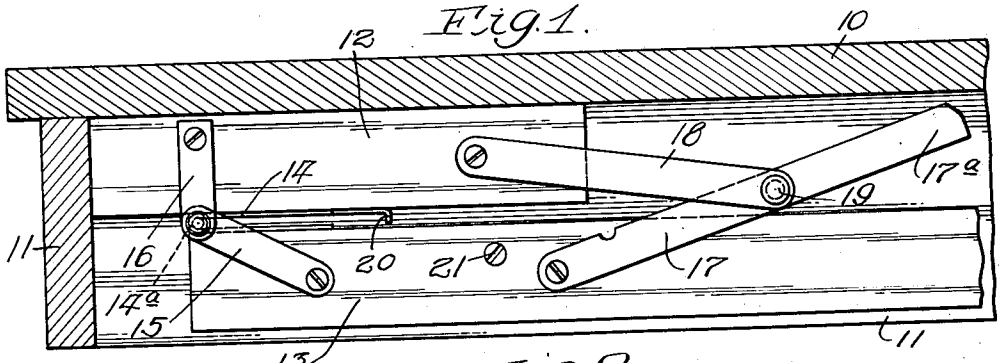


Fig. 2.

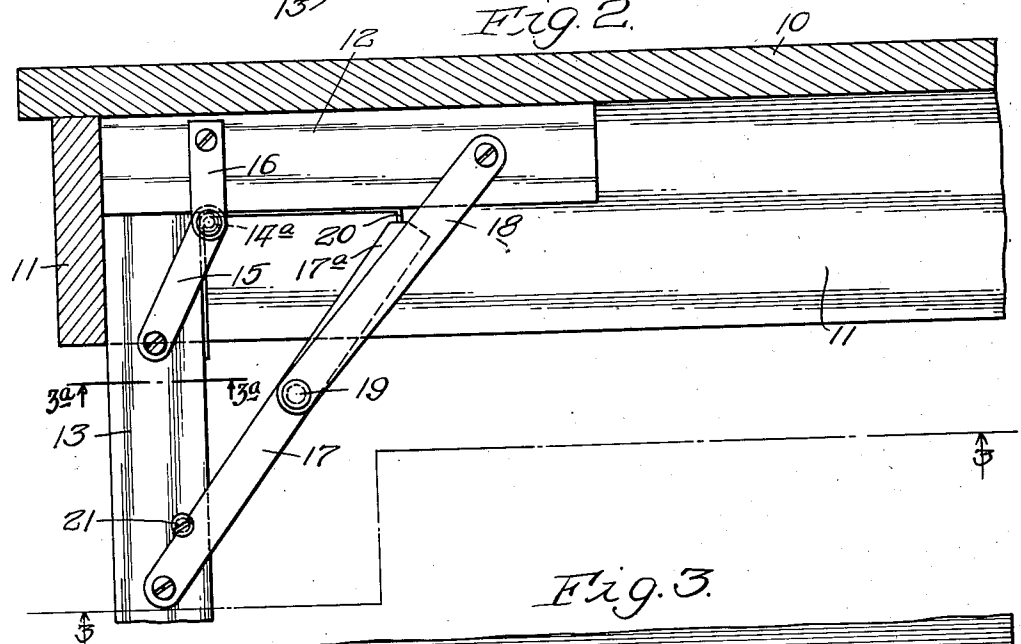
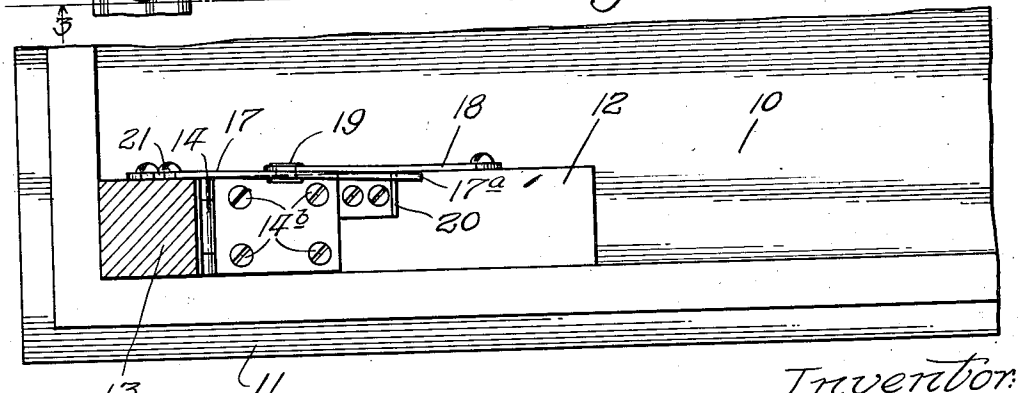


Fig. 3.



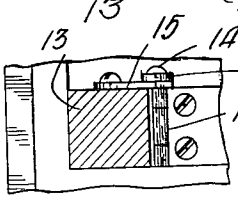


Fig. 3a

Inventor:
Albert Heath,
By Byron Forth, Ley, Christie & Wiles,
Attys.

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TABLE CONSTRUCTION

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Fig. 4

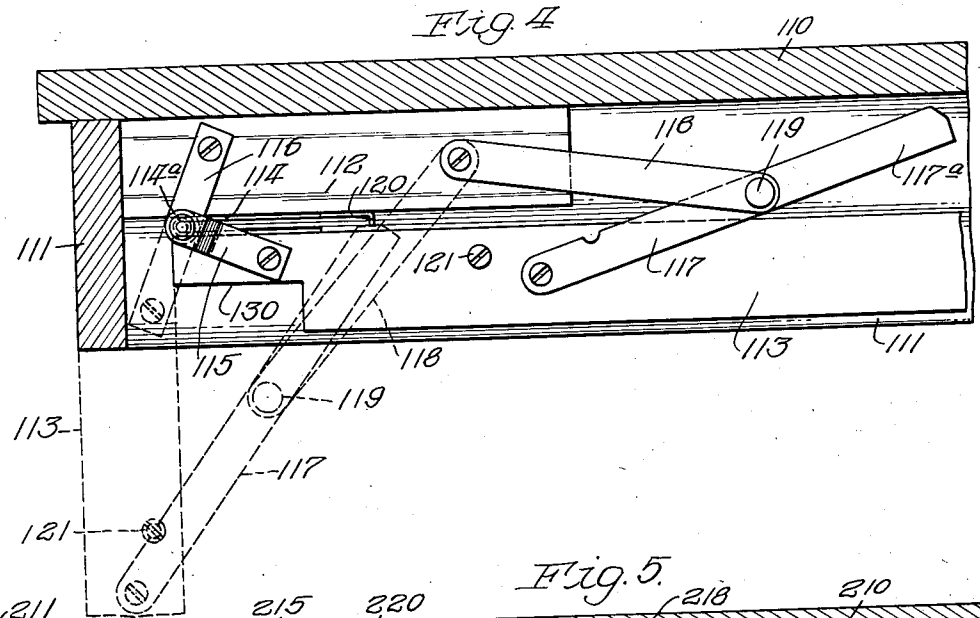


Fig. 5.

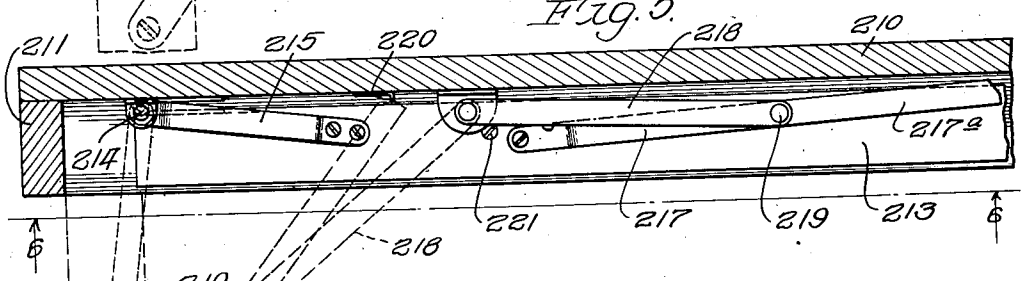
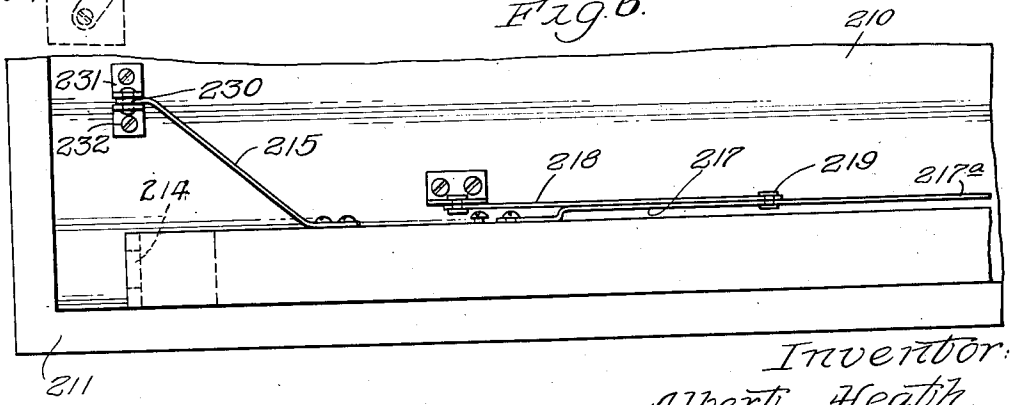


Fig. 6.



Inventor:
Albert Heath,
By Wyman Smith, Lay, Chatten & Miles, Attys.

Patented June 11, 1935 2,004,696

UNITED STATES PATENT OFFICE

2,004,696

TABLE CONSTRUCTION

Albert Heath, Chicago, Ill., assignor to R. F. Weisbrenner, Chicago, Ill.

Application July 30, 1934, Serial No. 737,678

2 Claims. (Cl. 311—98)

This invention relates to improvements in table construction and, more especially, to improved means for hingedly attaching a leg to a table.

Among the features of my invention is the provision of a hinge joint for a leg that will firmly brace and secure the leg when open and yet permit ready folding of the leg.

Another feature of my invention is an improved brace or bracing means for locking the leg in open position and bracing the same against undesired folding. This means, however, is readily disengageable to permit folding of the leg when desired.

Other features and advantages of my invention will appear more fully as I proceed with my specification.

In those forms of devices embodying the features of my invention shown in the accompanying drawings—

Figure 1 is a vertical sectional view showing the leg closed; Fig. 2 is a similar view showing the leg open; Fig. 3 is a view taken as indicated by the line 3 of Fig. 2; Fig. 3ª is a plan or end section of the pin of the hinge; Fig. 4 is a view similar to Fig. 1 showing a modified form; Fig. 5 is a view similar to Fig. 1 showing another modification; and Fig. 6 is a view taken as indicated by the line 6 of Fig. 5.

I shall first describe the construction shown in Figs. 1, 2 and 3. As here shown, the table includes a top 10, with an apron 11 of usual construction. On the underside of the top and against the apron 11 is fastened a block 12 to which the leg 13 is hinged by means of the hinge 14.

The pin 14ª of the hinge is extended inwardly and embraced by holes in the ends of the auxiliary hinge members 15 and 16, the former screwed to the inside of the leg adjacent the side to which the hinge 14 is attached and the latter similarly fastened to the inside face of the block 12. These auxiliary hinge members brace the leg against sidewise bending when in open position and thus considerably relieve the strain on the hinge 14 and especially on the screws 14ᵇ by which such hinge is attached to the block 12.

Means are also provided for locking and bracing the leg in open position. Such means includes a toggle comprising the links 17 and 18 hinged to the side of the leg and the side of the block, respectively, and pivotally connected at 19. The link 17 is provided with an extension 17ª (projecting beyond the pivot 19), the end of which is adapted to be pressed into engagement with the lug, seat, or plate 20 fastened on the underside of the block 12. This is accomplished by moving the toggle slightly beyond the straight position. This may be termed the locked position for the toggle. When in this position, the leg is locked against closing, because any pressure on the leg tending to close it merely pushes the end of the extension 17ª more firmly against the lug or seat afforded by the member 20. In order to close the leg, the toggle is "broken" by removing the end of the extension from the seat and the leg may then be folded up under the table top.

The screw 21 may serve as an additional stop for the toggle lever 17 when in locked position.

The construction shown in Fig. 4 is similar to that shown in Figs. 1, 2 and 3 and similar parts are indicated by the same reference numerals augmented by 100. There is a difference in the following respect, however. The leg 113 is provided with a notch 130 and the leg is hinged close enough to the apron 111 so that when it is open, the apron will lie in the notch. By this construction the leg can be fastened much closer to the edge of the table to give increased stability; and when it is open, its outer face will form a smooth surface with the outside of the apron.

In the construction of Figs. 5 and 6, the block 12 is omitted and the leg 213 is hinged directly to the underside of the top 210 by the hinge 214.

In order to brace the leg against sidewise strain there is provided the auxiliary hinge brace 215 with one end screwed to the leg and the other end pivoted at 230 to the members 231 and 232 attached to the underside of the top 210. The pivot 230 is substantially in line with the axis of the hinge 214 and far enough to one side of the hinge to give the leg a good brace against sidewise strains.

A toggle including the members 217 and 218 is provided for locking the leg in open position. Since the construction and operation of this toggle are the same as described above for the construction of Figs. 1, 2 and 3, the same need not be described here.

While I have shown and described certain embodiments of my invention, it is to be understood that it is capable of many modifications. Changes, therefore, in the construction and arrangement may be made without departing from the spirit and scope of the invention as disclosed in the appended claims, in which it is my intention to claim all novelty inherent in my invention as broadly as permissible, in view of the prior art.

What I claim as new, and desire to secure by Letters Patent, is:

1. Table construction, including; a top; a block

fastened to the underside of the top; a leg hinged to the underside of the block by a hinge with a pin; an inward extension on the pin of the hinge; and auxiliary hinge members fastened to the side of the leg and the side of the block, said members having holes embracing said extension on said pin.

2. Table construction, including; a top; a leg hinged under the top; a toggle, including links hinged to the side of the leg and on the underside of the top, respectively, and pivotally connected, the former provided with an extension projecting beyond such pivot; and a seat under the top adapted to be engaged by the end of said extension when the toggle is moved inwardly beyond its straight position.

ALBERT HEATH.