Jan. 12, 1932. J. F. KREMA 1,840,844

CARD TABLE

Filed Nov. 26, 1928

Fig. 1.

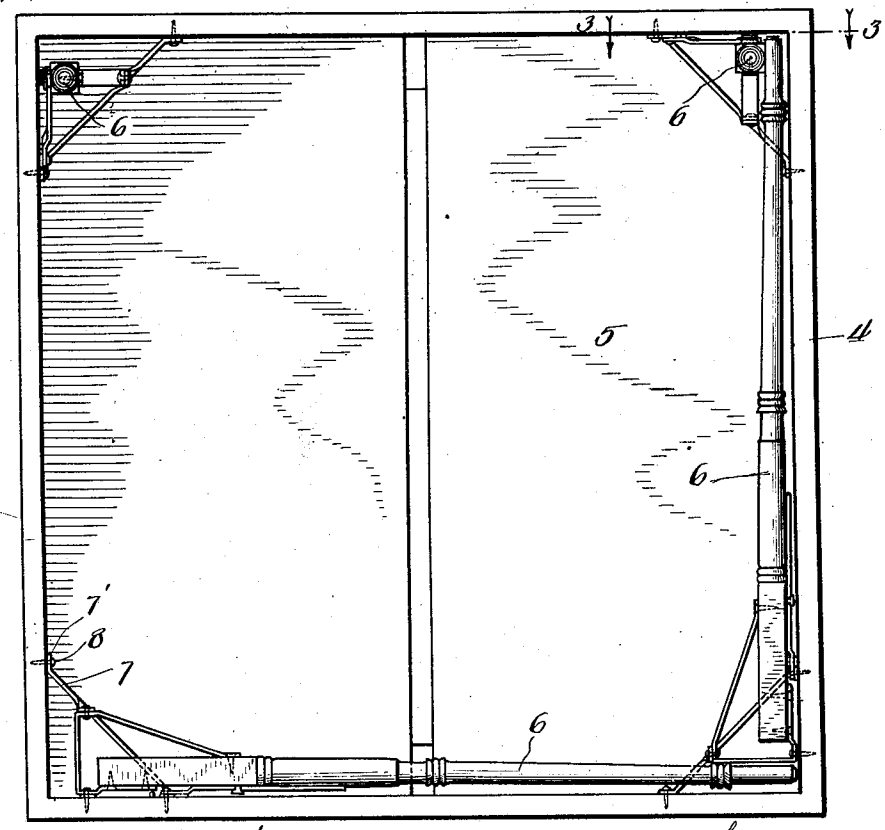


Fig. 2.

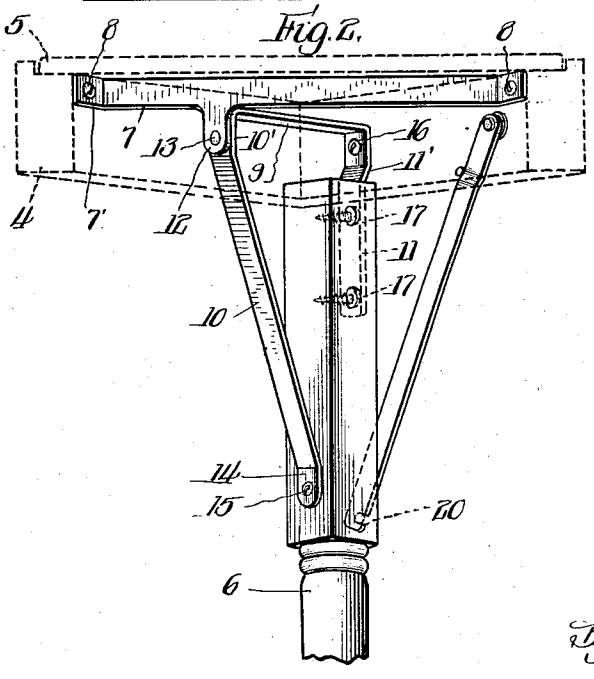
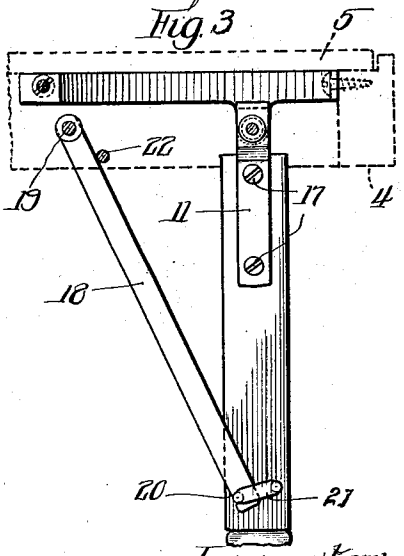


Fig. 3



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UNITED STATES PATENT OFFICE

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CARD TABLE

Application filed November 26, 1928. Serial No. 321,884.

This invention relates generally to tables having folding legs and more especially to card tables.

The object of the invention is to provide a strong and substantial folding hinge for connecting the leg to the frame of a table and adapted to maintain the leg rigidly in open position.

A further object of the invention is to make a table leg hinge entirely of flat metal strips comprising only a few parts connected together and to the leg and the frame of the table in a novel manner to hold the leg rigidly in open position and to permit it to be folded compactly within the frame.

And a further object of the invention is to provide a table leg hinge with means for fastening it to the table frame located wholly within the frame and not exposed at the top or sides of the table.

In the accompanying drawings I have illustrated a selected embodiment of the invention and referring thereto:

Fig. 1 is a bottom plan view of a card table embodying the invention with 2 of the legs open and 2 legs folded.

Fig. 2 is a perspective view of a corner of the table with a leg open and showing the hinge from the inside.

Fig. 3 is a sectional view on the line 3—3 of Fig. 1.

Referring to the drawings the table frame 4, the top 5 and the legs 6 may be made of any size, shape or material but my invention is particularly adapted and intended for use on card tables and, therefore, I have shown it embodied in a card table having a rectangular frame made of wood strips, a top made of light material and turned wood legs. The hinge comprises a support member 7 which is arranged across a corner of the frame and has its ends 7′ bent to lie flatly against the sides of the frame to which they are fastened by screws 8. The pivot member of the hinge is fastened rigidly to the leg and is pivoted on one side to the frame and on the other side to the support member and this pivot member comprises the cross bar 9, the long outer arm 10 and the short inner arm 11.

The arm 10 has a portion 10′ adjacent the cross bar 9 which is substantially perpendicular to the cross bar and this portion is fastened to an ear 12 on the support by a pivot pin or rivet 13. The arm 10 is inclined inwardly from the pivot end 10′ to the outer end 14 which is flattened and secured to the leg 6 by a screw 15. The ear 12 is bent to dispose the face thereof parallel with the side of the frame into which the screw 16 is extended. Thus the elongated arm 10 not only acts as a pivot connection between the leg and the frame but it also braces the leg against inward and outward movement. The short arm 11 is fastened by a pivot screw 16 to the frame opposite the pivot 13, and is also fastened by screws 17 to the leg. The short arm is bent at 11′ to offset that portion thereof fastened to the leg and to space the leg from the frame and provide room for the locking brace 18 which is pivoted at 19 on the frame and has a slotted end 20 to engage a keeper 21 on the leg. A pin 22 on the frame forms a stop and when the leg is in open position and the slot in the brace is engaged with the keeper, as shown in Fig. 3, the brace will be held in this position to lock the leg rigidly in open and upright position. The engagement of the slot with the keeper need be slight to hold the parts and since the stop 22 is located close to the pivot of the brace the latter may be forced sufficiently at its outer end to disengage the slot from the keeper so that the leg may be folded. It will be noted that the hinge consists essentially of two parts, the support member and the pivot member, these two parts are of simple construction and easily made. Notwithstanding the simplicity of the construction the parts are arranged in a novel manner to hold the leg rigidly in open position and also to prevent lateral displacement of the leg in swinging it to and from open position. The hinge not only forms a superior hinge connection for the leg to the table but it also acts to brace and hold the leg rigidly in open position and to insure accurate swinging movement of the leg to and from open position. The cross bar 9 reinforces the support member and increases the rigidity of the entire structure. The locking brace limits

the open swinging movement and prevents closed swinging movement of the leg, thereby bracing it in two directions when fully opened.

I have described the invention as applied to a card table because this is a use of the invention for which it is primarily intended but it will be apparent that it can be used for other kinds of tables and even for other kinds of furniture or devices in the same manner and with the same desirable results; and I reserve the right to make such changes in the form, construction and arrangement of parts of the invention as may be necessary or desirable for different uses thereof or otherwise and within the scope of the following claims:

I claim:

1. The combination of a frame having a corner and a leg therefor, of a hinge pivotally connecting the leg to the frame and comprising a support member extending across the corner and fastened to the frame, and a pivot member comprising a substantially straight short arm and an inclined long arm connected at their inner ends by a cross bar and fastened at their outer ends to the leg and pivotally mounted on the support member between its ends and on an opposite part of the frame.

2. The combination of a frame having a corner and a leg therefor, of a hinge pivotally connecting the leg to the frame and comprising a support member extending across the corner and fastened to the frame, and a pivot member comprising one arm fastened to the leg and pivoted to the frame and another elongated oppositely disposed inclined arm fastened to the leg and pivoted to the support between the ends of the support and a cross bar connecting the upper ends of said arms.

3. The combination of a frame having a corner and a leg therefor, of a two-part hinge pivotally connecting the leg to the frame and comprising a support member extending across the corner and fastened at its ends to the frame, and a one-piece pivot member comprising a substantially straight short arm and an inclined long arm connected at their inner ends by cross bar and fastened at their outer ends to the leg, and pivot devices engaging said arms adjacent the cross bar and pivotally mounting the pivot member on the frame and the support.

4. The combination of a frame having a corner and a leg therefor, of a hinge pivotally connecting the leg to the frame and comprising a one-piece support member and a one-piece pivot member, said support member extending across the corner and fastened at its ends to the frame and having a dependent ear, and said pivot member comprising a cross bar, a short arm and a long arm, said cross bar connecting the upper ends of said short and long arms, said short arm being substantially straight and fastened to the leg and pivoted to the frame, and said long arm being inclined and fastened to the leg and pivoted to said ear.

5. The combination of a frame having a corner and a leg therefor, of a hinge pivotally connecting the leg to the frame and comprising a one-piece support member extending across the corner and fastened to the frame, and a one-piece pivot member comprising a substantially straight short arm and an inclined long arm connected at their inner ends by a cross bar and fastened at their outer ends to the leg and pivotally mounted on the support member between its ends and on an opposite part of the frame, and a keeper on the leg, and a locking brace pivoted at one end to the frame and adapted to interlockingly engage said keeper at its other end.

6. The combination of a frame having a corner and a leg therefor, of a hinge pivotally connecting the leg to the frame and comprising a one-piece support member and a one-piece pivot member, said support member extending across the corner and fastened at its ends to the frame, said pivot member comprising a substantially straight short arm and an inclined long arm connected at their inner ends by a cross bar and fastened at their outer ends to the leg and being pivoted to the support member at a point between the ends of said support member and to an opposite part of the frame, and said leg being secured in said pivot member adjacent that part of the frame to which the pivot member is pivoted, and spaced from that part of the support member to which the pivot member is pivoted.

7. The combination of a frame having a corner and a leg therefor, of a two-part hinge pivotally connecting the leg to the frame and comprising a support member extending across the corner and fastened at its ends to the frame, a one-piece pivot member comprising a substantially straight short arm and an inclined long arm connected at their inner ends by a cross bar and fastened at their outer ends to the leg, means adjacent the cross bar pivotally connecting said pivot member to one side of the frame, an ear on said support member having the face thereof disposed toward the side of the frame to which said pivot member is connected, and means adjacent the cross bar pivotally connecting said pivot member to said bar.

JOHN F. KREMA.