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2,452,979

EXTENSION TABLE

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Fig. 1.

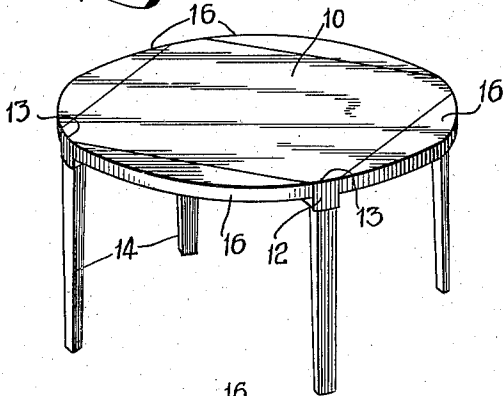


Fig. 2.

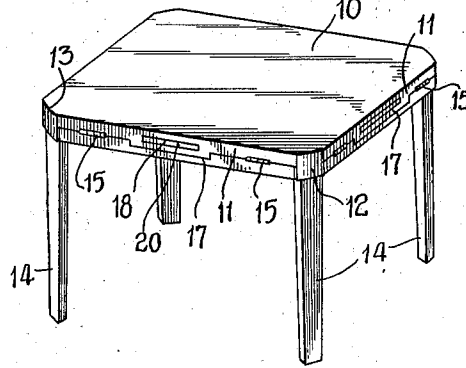


Fig. 3.

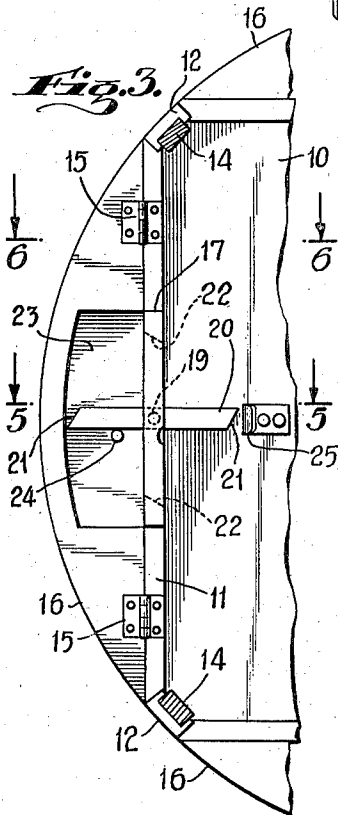


Fig. 4.

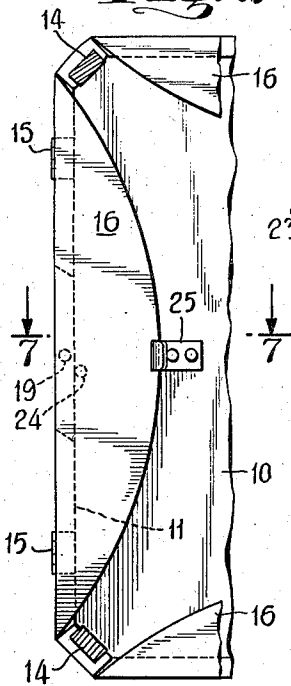


Fig. 5.

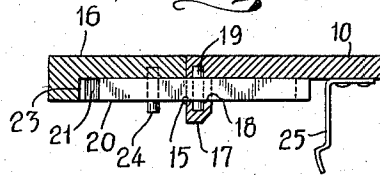


Fig. 6.

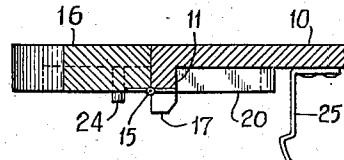


Fig. 7.

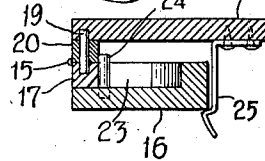
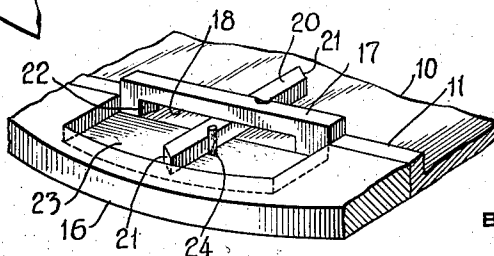


Fig. 8.



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EXTENSION TABLE

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3 Claims. (Cl. 311—62)

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This invention relates to a table of the type formed with a series of extension leaves that are movable into a position to extend the size of the table. Tables of the particular class are well known, but there has never been developed an inexpensive type of extension table that is sturdy, pleasing to the eye, and is properly supported by legs when the table top is in its extended form.

My invention contributes a table that is inexpensive to construct, is exceedingly pleasing to the eye, presents a slightly and complete appearance whether the leaves are in an extended position or in a folded or retracted position, and is properly supported when the leaves are extended.

As one feature of my invention, the corners of the main central square portion of the table top are truncated and preferably formed to extend into the peripheral outline of the table leaves when those leaves are in an extended position. I thereby leave available parts of the main table top at the periphery thereof to which table legs may be secured in either fixed or hinged relation. It is also apparent that my table has a continuous smooth periphery when the leaves are extended or are folded under the table.

A further feature of the invention resides in the utilization of a detent for holding each of the leaves of the table in an extended position, each detent being movable into and out of supporting relation to its particular leaf through the mounting thereof in an opening in the side of the main table top.

As a further feature of the invention, the detents are adapted to be maintained in position to close the openings when the leaves of the table are retracted, thereby presenting a very slightly appearance. As a still further feature of this portion of my invention, means are provided on each of the table leaves for holding the detents in the position indicated and thereby maintaining closed the several openings.

It is a further feature of my invention that the same means on the table leaves that hold the detents in closing relation to the openings, limit the throw of the detents when the several leaves are held in extended position.

A still further feature of my invention relates to the forming of flanges at the corners of the main table top for cooperation with the several leaves to form a complete, and preferably circular, table top, and to facilitate the mounting of the legs in fixed or hinged relation at the periphery of the table as has already been emphasized.

Referring now to the drawings, there is shown in perspective in Fig. 1, my table with the several leaves held extended. Fig. 2 is a perspective view showing the several table leaves retracted

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and held under the main table top. Fig. 3 is a view of a part of the underside of the table with the leaves extended as in Fig. 1. Fig. 4 is a view of the underside of the table with the leaves retracted as in Fig. 2. Figs. 5 and 6 are sections taken respectively along lines 5—5 and 6—6 of Fig. 3. Fig. 7 is a section taken along lines 7—7 of Fig. 4. Fig. 8 is a perspective view illustrating a detent and its relation to the main table top and one of the leaves.

Referring now more particularly to the drawings, the main or central table top portion is designated by reference numeral 10 and is formed with a downwardly extending flange 11. At each corner of the substantially square central table top 10, the ends of the sides of the table are cut away to form a peripheral surface 13 that is preferably curved for a purpose hereinafter indicated. The flange 11 is deepened at 12 under the surface 13, the deep flange 12 being utilized to facilitate the mounting of a leg 14 at each corner of the table. Through this construction the four legs act to support the table at its periphery when the table is extended to form a circle as will be made even more apparent hereinafter. Also, if the legs are to be secured by hinges (not shown), then they may be mounted for ready pivoting into a folded position under the table, as is understood by those skilled in the art.

A pair of hinges 15 are secured at each side of the table top 10, the several hinges 15 supporting four extension leaves 16. It is obvious that the several leaves 16 may be maintained in their extended position of Figs. 1 and 3, wherein they are shown as forming with the central table top 10 a complete circular table. It will be noted that the outer periphery of this table will include the edges 13 of the several deepened flanges 12 to which I have already alluded.

Each of the flanges 11 is also deepened somewhat at 17 so as to make room for the forming of a slot 18. Mounted within each slot 18, as on a pivot 19, is a detent 20 formed with bevelled ends 21. The ends of each slot 18 are also bevelled as at 22 so as to limit rotation of each detent 20 as will be readily apparent. Each detent 20 is rotatable from a position closing its particular slot 18, into the leaf supporting position illustrated in Fig. 3. In Fig. 3 one of the detents 20 is shown within a cutaway portion 23 of one of the leaves 16 of the table. It is obvious that in this position of the parts the detent 20 serves to support the particular leaf 16 in its position of Fig. 1. It will be noted that the cutaway portion 23 has extending therefrom a pin 24. In Fig. 3 it is readily seen that it is the function of the pin 24 to limit the throw of the detent 20.

If it is desired to move the leaves 16 from their

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extended position of Fig. 1 to their retracted position of Fig. 2, the detents 20 are rotated clockwise in Fig. 3. This will, of course, bring the bevelled surfaces 21 of each detent against the bevelled surfaces 22 of each of the slots 18. The slots 18 will now be closed so as to present a very slightly appearance as seen in Fig. 2. Each of the leaves 16 may now be moved into the position of Fig. 4. They will now be tucked under the table, as is further well illustrated in Fig. 7, a series of springs 25 being provided to hold the several leaves 16 in their retracted position. It is well to note that the several leaves 16 are not in obstructing relation to the several spaces between the legs 14 and therefore do not interfere with the normal use of the table.

In the position of the parts in Figs. 4 and 7, it will be noted that the limit pin 24 now is against an edge of the detent 20 shown in Figs. 4 and 7 so as to prevent rotation of that detent in one direction to the position of Figs. 3 and 5. Since the detent cannot rotate in the other direction because of its coaction with the bevelled surfaces 22 of the slot 18, it is obvious that the detent will be held in closing relation to the slot 18. It is therefore seen that regardless of the positioning of the leaves, the table always presents a finished appearance with all openings or slots closed, and with the table top properly proportioned and shaped.

Those skilled in the art will, of course, appreciate also that when the table is in its extended form of Fig. 1, it will be supported at its periphery and therefore will be completely stable since the legs will be at substantially a maximum distance from the center of the table.

I now claim:

1. In a table top, a central main portion having a periphery comprising a series of straight edges, a series of leaves each having an outer peripheral curved edge and an inner straight edge with said inner straight edges hinged to the straight edges of the said central main portion for movement into position to form an extension of said main portion and for hinged movement to lie retracted adjacent the under surface of said central main portion whereby substantially not to obstruct the space under the table top, the said straight edges of said central main portion having each an opening exposed over the straight edge of each of said leaves when said leaves lie retracted, a supporting detent pivoted for rotation in each of said openings for movement of a part thereof under said leaves when said leaves are extended whereby to support the said leaves in a horizontal table extending position, and said detents having each a surface for flush alignment with the surfaces of the straight edges of said central main portion when said detents are rotated relatively to said openings for withdrawing said detent parts from under said leaves and into said openings.

2. In a table top, a central main portion having a periphery comprising a series of straight edges, a series of leaves each having an outer peripheral curved edge and an inner straight edge with said inner straight edges hinged to the straight edges of the said central main portion for movement into position to form an extension of said main portion and for hinged movement to lie retracted adjacent the under surface of said central main portion whereby substantially not to obstruct the space under the table top, the said straight edges of said central main portion having each an opening exposed over the

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straight edge of each of said leaves when said leaves lie retracted, a supporting detent pivoted for rotation in each of said openings for movement from a first position in alignment with said opening to a support position with parts thereof under said leaves to support the said leaves in a horizontal table extending position, said detents when in alignment with said openings having each a surface flush with the surfaces of the edges of said central main portion, holding and limiting means on said leaves, said holding and limiting means limiting said detents to rotation relatively to said openings to said support position when said leaves are extended, means between portions of said detents and said central main portion for stopping rotation of said detents at said first position in alignment with said openings when said detents are rotated towards said first position from said support position to allow said leaves to hinge into retracted position, and said holding and limiting means moving with said leaves as said leaves hinge into retracted position for holding said detents against rotation from said first position towards said support position, whereby said detents are then held by said holding and limiting means and said means between portions thereof and the central main portion against any rotation whatsoever.

3. In a table top, a central main portion, a series of leaves hinged to the periphery of the said central main portion for movement into position to form an extension of said main portion and for hinged movement to lie retracted adjacent the under surface of said central main portion whereby substantially not to obstruct the space under the table top, a supporting detent pivoted under the said central main portion opposite each of said leaves for movement from a first position to a support position with parts thereof under said leaves to support the said leaves in a horizontal table extending position, holding and limiting means on said leaves, said holding and limiting means limiting said detents to rotation relatively to said openings to said support position when said leaves are extended, means between portions of said detents and said central main portion for stopping rotation of said detents at said first position when said detents are rotated towards said first position from said support position to allow said leaves to hinge into retracted position, and said holding and limiting means moving with said leaves as said leaves hinge into retracted position for holding said detents against rotation from said first position towards said support position, whereby said detents are then held by said holding and limiting means and said means between portions thereof and the central main portion against any rotation whatsoever.

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