

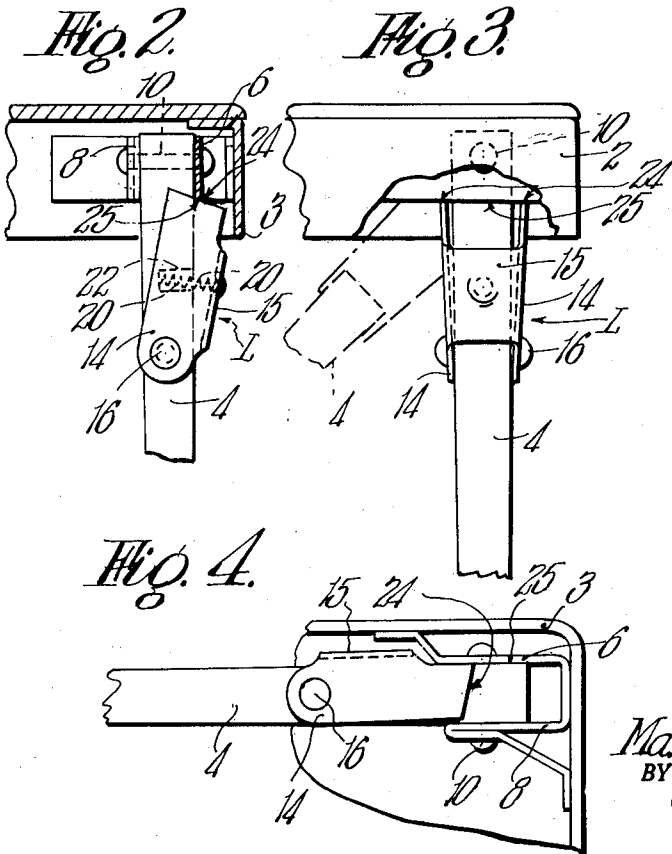
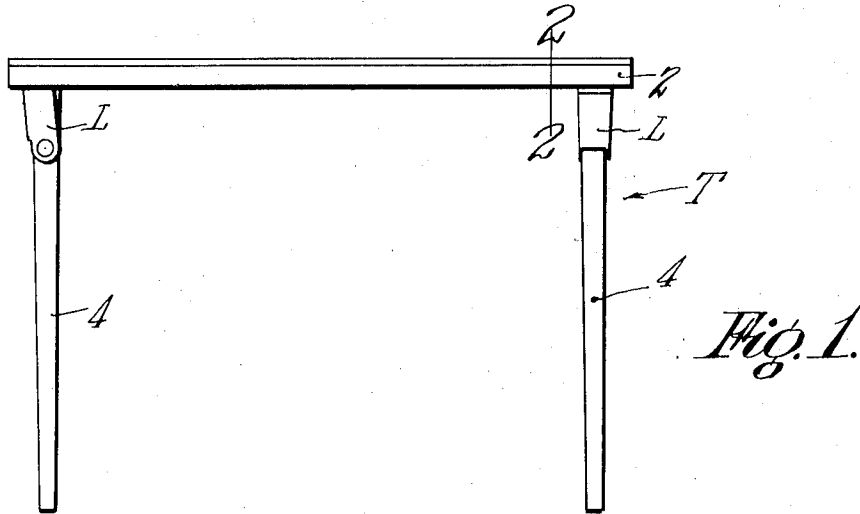
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M. SCHAFFER

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TABLE

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INVENTOR.

Max Schaffer
BY Walter C. Ross
ATTORNEYS.

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TABLE

Max Schaffer, Springfield, Mass.

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This invention relates to improvements in tables, stands, and the like and is directed more particularly to improvements in tables having supporting legs arranged for movements between collapsed and supporting positions.

According to the principal objects of the invention a table is provided which has legs for supporting the same that are movably mounted thereon for movements between collapsed and supporting positions with releasable locking means associated therewith for locking the said legs in a supporting position.

Various novel features and advantages of the invention will be more fully hereinafter referred to in connection with the accompanying description of the preferred form thereof reference being made to the accompanying drawing wherein;

Fig. 1 is a side elevational view of a table or the like embodying the novel features of the invention.

Fig. 2 is a sectional elevational view at a larger scale on the line 2—2 of Fig. 1.

Fig. 3 is an enlarged fragmentary elevational view of one end of the table shown in Fig. 1, and

Fig. 4 is an inverted plan view of the parts shown in Fig. 3.

In the drawing Fig. 1 there is shown a table represented generally by T which has a top 2 and a plurality of supporting legs 4. The said legs 4 are arranged for swinging movements relative to the table top 2 so that they may be moved from a collapsed position to a supporting position shown in Fig. 1. The legs are alike as are their pivotable connections with the table top and one only of said legs and connections will be described hereinafter.

The novel means for connecting the legs to the table top and the means for locking the same in table supporting position will now be described with particular reference to Figs. 2, 3 and 4. Brackets shown more clearly in Fig. 4 are carried by the table top 2 at its corners and are preferably made of metal. These are carried by a depending flange 3 of the top 2.

The bracket referred to may be formed as in Fig. 4 so as to have cheek portions 6 and 8 or of course if desired separate bracket members may be used to provide the cheek portions and may be secured to adjacent sides of the table top. The flange 3 is preferably of metal and the bracket may be secured thereto by welding.

The leg 4 is embraced by and pivoted to the cheeks 6 and 8 by means of a suitable pivot

member 10 so that it may swing from a collapsed position beneath the table to an extended position for supporting the table. A lock L is provided which has side portions 14 at opposite sides of the leg and a forward portion 15. The parts 14 are mounted on a pivot 16 passing through the leg so that the lock may swing on said leg. A spring 20 which may have one end in a recess 22 of the leg bears against the forward portion 15 of the lock so as to urge said lock away from the leg and into locking position as shown in Fig. 2. Locking faces 24 on the upper ends of portions 14 of the lock L are preferably inclined as shown and are arranged to bring up against the lower edge 25 of the bracket cheek 6 when the leg is swung into a table supporting or open position.

When a leg is in collapsed or closed position so as to underlie the table top 2 the lock is spring pressed forwardly to abut the inner side of cheek member 6. A leg is swung on its pivotable connection with the bracket 6 and 18 to supporting position and as it is swung outwardly to the position shown in Figs. 2 and 3 and away from the collapsed position shown in Fig. 4 the lock is urged outwardly by the spring so that its end 24 brings up against the lower edge 25 of the member 6.

It will be noted that the upper edges 24 of the lock are at either side of the pivotable connection 10 and bearing on the member 6 holds the leg against swinging movements on its pivot. In effect the lock rigidly locks the leg to the table top in an extended position. The leg is held against forward and backward movements because its upper end is firmly embraced between the members 6 and 8 and thus the leg is held against movement in all directions.

When it is desired to collapse the leg or to move it from table supporting position the lock is depressed against the action of the spring to move the edges 24 from beneath the edge 25 of cheek 6 and then said leg may be swung to its collapsed position beneath the table top.

As the leg is swung to open or supporting position the lock by action of the spring assumes its locking position. All that is necessary in opening the leg is to swing it on its pivot since the lock operates automatically.

It will be noted that the leg is pivoted between members which embrace and hold it against movements in one direction while when locked it is held against swinging movements in opposite directions. Thus by a simple means the

leg rigidly supports the table and may readily be swung between open and closed positions.

Having described the invention in the form as at present preferred what I now desire to claim and secure by Letters Patent of the United States is:

1. A table comprising in combination, a bracket having cheeks, a leg pivoted to and embraced between said cheeks for swinging movements in a certain plane between collapsed and supporting positions, a lock pivoted to said leg for swinging movements between unlocked and locked positions in a certain plane and having parts for engaging one of said cheeks when in locking position to releasably hold said leg against swinging movements, the said parts of said lock being spaced to engage said cheek at opposite sides of said pivotal connection between said leg and cheeks.

2. A table comprising in combination, a bracket having cheeks, a leg embraced by and pivoted to said cheeks for swinging movements in a certain plane between collapsed and supporting positions, a lock having parts at opposite sides of said leg pivoted thereto for swinging movements in a plane transverse to that of said leg, said parts having locking surfaces at the upper ends thereof which are inclined relative to the pivotal connections of said cheeks and leg for engaging one of said cheeks when in locking position.

3. A table comprising in combination, a bracket having cheeks, a leg embraced by and pivoted to said cheeks for swinging movements in a certain plane between collapsed and supporting positions, a lock having parts at opposite sides of said leg pivoted thereto for swinging movements in a plane transverse to that of said leg, said parts having locking surfaces at the upper ends thereof which are inclined relative to the pivotal connections of said cheeks and leg for engaging one of said cheeks when in locking position, and a spring for urging said lock into locking position.

4. A table comprising in combination, a top and a member depending therefrom, a leg, pivotal connections between said leg and member, a lock, and pivotal connections between said lock and leg below the first named pivotal connections, the said lock being provided with a part extending upwardly from its pivotal connections with the leg towards said first-named pivotal connections and having an upper end portion adapted to bear against said depending member when the leg is in extended position whereby the lock is wedged between its pivotal connections and the depending member to prevent swinging movements of the leg relative to the table.

5. A table comprising in combination, a top and a member depending therefrom, a leg, pivotal connections between said leg and member, a lock, pivotal connections between said lock and leg below the first named pivotal connections, the said lock being provided with a part extending upwardly from its pivotal connections with the leg towards said first-named pivotal connections and having an upper end portion adapted to bear against said depending member when the leg is in extended position whereby the lock is wedged between its pivotal connections and the depending member to prevent swinging movements of the leg relative to the table, and spring means urging the lock in one direction so its upper end portion is urged

into bearing relation with said depending member.

6. A table comprising in combination, a top and a member depending therefrom, a leg, pivotal connections between said leg and member, a lock, pivotal connections between said lock and leg below the first named pivotal connections, the said lock being provided with a part extending upwardly from its pivotal connections with the leg towards said first-named pivotal connections and having an upper end portion adapted to bear against said depending member when the leg is in extended position whereby the lock is wedged between its pivotal connections and the depending member to prevent swinging movements of the leg relative to the table, spring means urging the lock in one direction so its upper end portion is urged into bearing relation with said depending member, and the upper end portion of the lock being inclined for wedging against the said depending member.

7. A table comprising in combination, a top and a member depending therefrom, a leg, pivotal connections between said member and leg, a lock having parts at opposite sides of said leg and pivotal connections between said lock and leg disposed below said first-named pivotal connections, the said lock having parts on opposite sides of the leg extending upwardly from its pivotal connections with the leg provided with upper end portions adapted to bear against the depending member when the leg is in extended position so the lock is wedged between its pivotal connections and the depending member to prevent swinging movements of the leg.

8. A table comprising in combination, a top and a member depending therefrom, a leg and pivotal connections between said member and leg to facilitate swinging movements of the leg between collapsed positions adjacent said member and extended positions transversely to said member, a lock, having parts at opposite sides of said leg, and pivotal connections between said parts and leg, the said parts extending upwardly towards said first-named pivotal connections and having upper end portions adapted to bear on said member when the leg is in extended position to prevent swinging movements of said leg.

9. A table comprising in combination, a top and a member depending therefrom, a leg and pivotal connections between said member and leg to facilitate swinging movements of the leg between collapsed positions adjacent said member and extended positions transversely to said member, a lock, having parts at opposite sides of said leg, pivotal connections between said parts and leg, the said parts extending upwardly towards said first-named pivotal connections and having upper end portions adapted to bear on said member when the leg is in extended position to prevent swinging movements of said leg, and spring means to urge said lock into locking position.

10. A table comprising in combination, a top and a member depending therefrom, a leg and pivotal connections between said member and leg, a U-shaped lock member having side portions at opposite sides of said leg and pivotal connections between the lower ends of said side portions and said leg, the said side portions extending upwardly from said pivotal connections towards the first-named pivotal connections having upper end portions adapted to bear on

the depending member when the leg is in extended position whereby the lock is wedged between said member and its pivotal connections with the leg to prevent swinging movements of said leg.

between said member and its pivotal connections with the leg to prevent the leg from swinging from an extended position.

14. A table comprising in combination, a top and a member depending therefrom, a leg and pivotal connections between said member and leg to facilitate swinging of the leg between collapsed and extended positions adjacent and transversely to said member respectively, a U-shaped lock having side parts at opposite sides of said leg and a forward portion connecting said side parts, pivotal connections between the lower ends of said side parts and said leg, the said side parts extending upwardly from said pivotal connections towards the first-named pivotal connections and provided with upper end portions the side edges of which lie adjacent said depending member when the leg is in collapsed position while the ends of said end portions bear against said depending member when the leg is in extended position whereby the lock is wedged between said member and its pivotal connections with the leg to prevent the leg from swinging from an extended position, and spring means to urge said lock into outward locking position as the leg swings from collapsed to extended position.

15. A table comprising in combination, a top and a member depending therefrom, a leg and pivotal connections between said member and leg to facilitate swinging of the leg between collapsed and extended positions adjacent and transversely to said member respectively, a U-shaped lock having side parts at opposite sides of said leg and a forward portion connecting said side parts, pivotal connections between the lower ends of said side parts and said leg, the said side parts extending upwardly from said pivotal connections towards the first-named pivotal connections and provided with upper end portions the side edges of which lie adjacent said depending member when the leg is in collapsed position while the ends of said end portions bear against said depending member when the leg is in extended position whereby the lock is wedged between said member and its pivotal connections with the leg to prevent the leg from swinging from an extended position, and spring means to urge said lock into outward locking position as the leg swings from collapsed to extended position, the ends of said end portions of the side parts of the lock being inclined tangentially to the axis of said last-named pivotal connections to prevent the lock to move beyond a locking position.

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11. A table comprising in combination, a top and a member depending therefrom, a leg and pivotal connections between said member and leg, a U-shaped lock member having side portions at opposite sides of said leg and pivotal connections between the lower ends of said side portions and said leg, the said side portions extending upwardly from said pivotal connections towards the first-named pivotal connections having upper end portions adapted to bear on the depending member when the leg is in extended position whereby the lock is wedged between said member and its pivotal connections with the leg to prevent swinging movements of said leg, and spring means to urge said lock in one direction into locking position.

12. A table comprising in combination, a top and a member depending therefrom, a leg and pivotal connections between said member and leg, a U-shaped lock member having side portions at opposite sides of said leg and pivotal connections between the lower ends of said side portions and said leg, the said side portions extending upwardly from said pivotal connections towards the first-named pivotal connections having upper end portions adapted to bear on the depending member when the leg is in extended position whereby the lock is wedged between said member and its pivotal connections with the leg to prevent swinging movements of said leg, and spring means to urge said lock in one direction into locking position, and means to limit movements of said lock in an opposite direction.

13. A table comprising in combination, a top and a member depending therefrom, a leg and pivotal connections between said member and leg to facilitate swinging of the leg between collapsed and extended positions adjacent and transversely to said member respectively, a U-shaped lock having side parts at opposite sides of said leg and a forward portion connecting said side parts, pivotal connections between the lower ends of said side parts and said leg, the said side parts extending upwardly from said pivotal connections towards the first named pivotal connections and provided with upper end portions the side edges of which lie adjacent said depending member when the leg is in collapsed position while the ends of said end portions bear against said depending member when the leg is in extended position whereby the lock is wedged

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