Feb. 13, 1940. J. H. WILLIAMS 2,190,498

PORTABLE TABLE AND UTILITY CABINET

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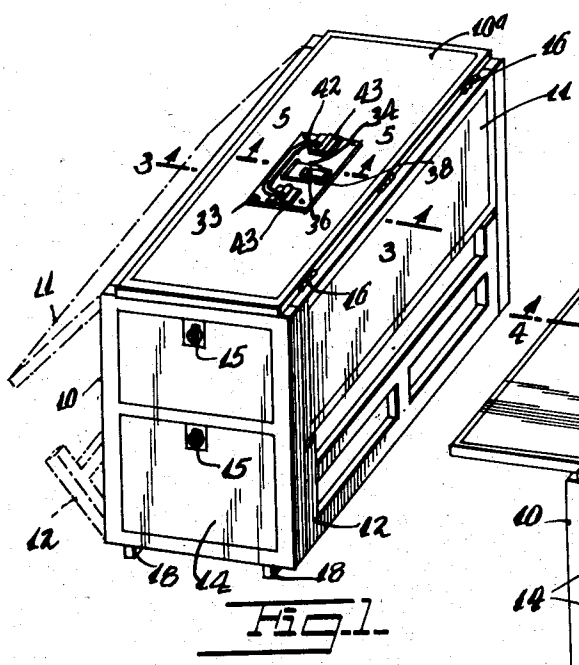


Fig. 1.

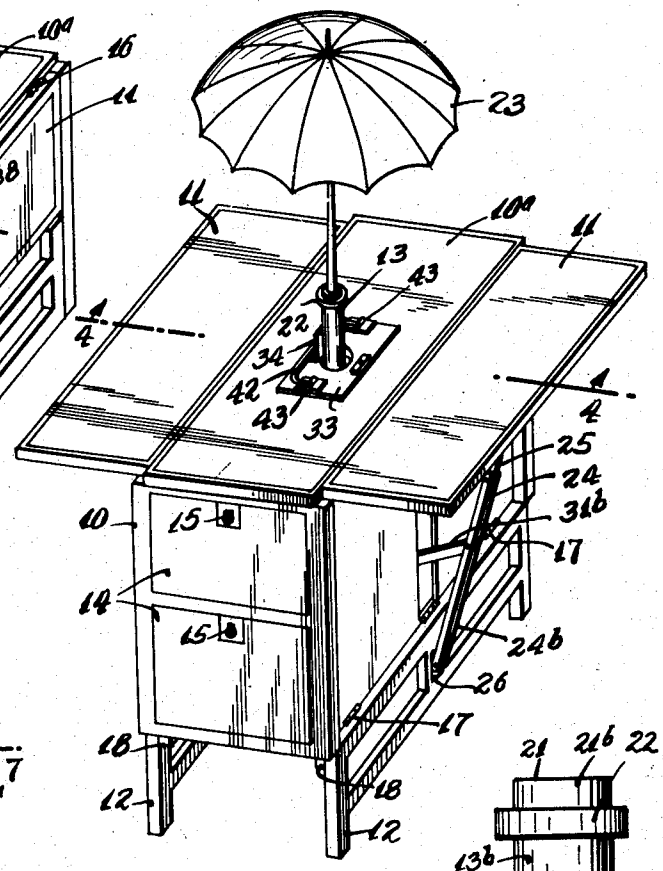


Fig. 2.

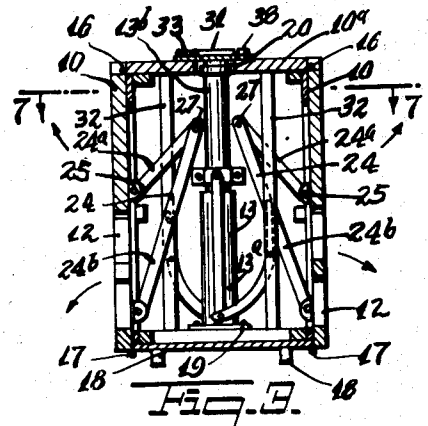


Fig. 3.

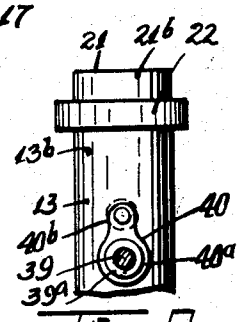


Fig. 6.

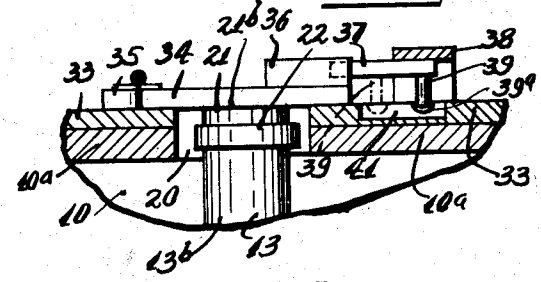


Fig. 5.

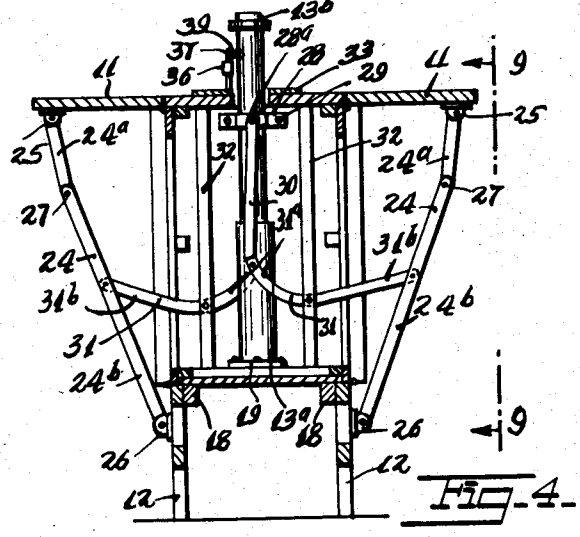


Fig. 4.

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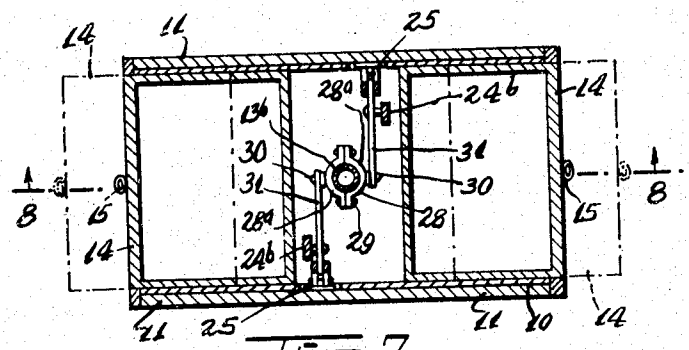


Fig. 7.

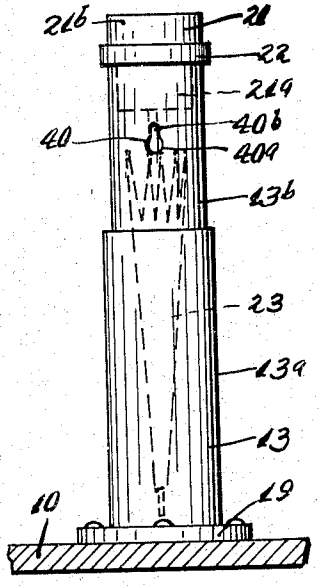


Fig. 10.

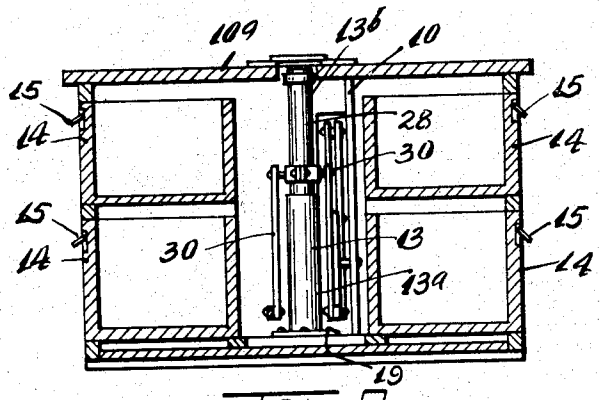


Fig. 8.

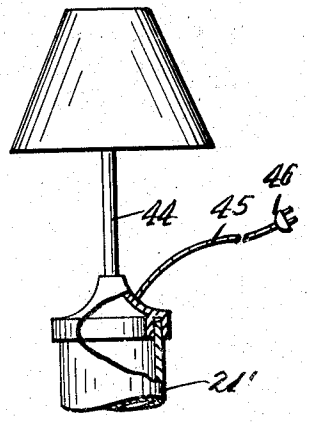


Fig. 11.

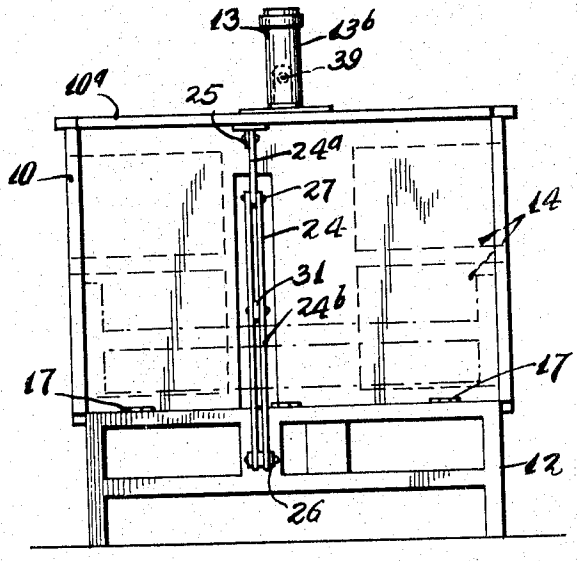


Fig. 9.

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UNITED STATES PATENT OFFICE

2,190,498

PORTABLE TABLE AND UTILITY CABINET

John H. Williams, New York, N. Y.

Application February 7, 1938, Serial No. 189,119

7 Claims. (Cl. 312—164)

This invention relates to new and useful improvements in a portable table and utility cabinet.

More specifically the invention proposes the construction of a portable cabinet having table extension leaves and legs which are connected together in such a manner that when the leaves are lifted to the horizontal position the legs will be pivoted to a vertical position so as to engage the ground and support the utility cabinet.

Still further it is proposed to provide an extension tube extending through the cabinet and which is adapted to be extended when the leaves and legs are extended.

Still further it is proposed to store an umbrella or similar object within the hollow tube and which may be extended above the cabinet for shading the table when it is used at sea shores and similar spots.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a perspective view of the portable table and utility cabinet in its folded condition.

Fig. 2 is a view similar to Fig. 1 but showing the parts in their extended condition.

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

Fig. 4 is a sectional view on the line 4—4 of Fig. 2.

Fig. 5 is an enlarged sectional view taken on the line 5—5 of Fig. 1.

Fig. 6 is an enlarged detailed view of a portion of Fig. 4.

Fig. 7 is a sectional view on the line 7—7 of Fig. 3.

Fig. 8 is a sectional view on the line 8—8 of Fig. 7.

Fig. 9 is a view looking in the direction of the line 9—9 of Fig. 4.

Fig. 10 is an enlarged elevational view of the extension tube per se.

Fig. 11 is an elevational view of a lamp which may be used in conjunction with the extension tube.

The portable table and utility cabinet, according to this invention, includes a hollow body 10 having a top 10a. Table extension leaves 11 are hingedly mounted on the sides of the body 10 and normally extend downwards along the side of the body 10. The leaves 11 are adapted to be extended upwards to a horizontal position. Legs 12 for the table 10 are hingedly mounted on the sides of the body and normally extend upwards along the sides of the body 10. These legs are adapted to be extended downwards to a vertical position. An extension tube 13 is mounted through the body 10 from the bottom to the top and is normally retracted into the body 10 and extendable therefrom. A means is cooperative between the table extension leaves 11, the legs 12 and the extension tube 13 for extending the tube from the top of the body 10 and lowering the legs 12 when the leaves 11 are raised.

The hollow body 10 is in the form of a cabinet and has a plurality of drawers 14 slidably mounted into the ends thereof and which are adapted to be closed by locks 15. These drawers are normally used for storing supplies for picnic lunches and the locks 15 are to hold the drawers 14 in their closed position to prevent any of the supplies being stolen. The extension leaves 11 are hingedly supported at one of their edges by means of a plurality of hinges 16. The adjacent edges of the top 10a and the leaves 11 are adapted to abut each other in the raised position of the leaves. These edge portions act as shoulders to prevent the leaves from pivoting beyond the horizontal. The legs 12 are hingedly mounted at one of their edges by means of hinges 17 and normally extend upwards along the side of the hollow body 10, and in their extended position are adapted to abut against shoulders 18 fixedly attached to the bottom of the hollow body 10. The shoulders 18 act to limit the pivoting of the legs 12 to a position in which they will depend vertically from the hollow body 10.

The tube 13 consists of telescopic sections 13a and 13b. The lowermost section 13a is provided with a flange 19 by which this lower section is fixedly attached to the bottom wall of the body 10. The top section 13b slidably engages into the bottom section 13a and is adapted to be extended through an opening 20 formed in the top 10a of the body 10. A plug 21 extends into the section 13b and has a flange 22 which is adapted to engage around the open end of the section 13b for preventing this plug from slipping into the tube 13. An umbrella 23 is attached to one side of the plug 21. When the plug 21 is inserted into the top of the tube 13 with the portion 21a extending into the tube the umbrella 23 is normally disposed within the tube. If the plug 21

is withdrawn from the tube 13 and the end 21b is inserted therein, the umbrella 23 will extend from the top of the tube so that it may be opened for shading the table when the device is used at a beach or similar sunny spot.

The means for extending the legs and tube when the leaves are raised comprises a folding arm 24 for each leaf 11. Each arm 24 is formed of a top section 24a and a bottom section 24b. The top section 24a of the folding arm 24 is pivotally supported upon a bracket 25 attached to the under face of the leaf 11. The end of the section 24b is pivotally attached to a bracket 26 supported upon the leg 12. The adjacent ends of the sections 24a and 24b of the folding arm 24 are pivotally connected together by a pin 27. Thus when the leaf 11 is raised it will pivot the leg 12 until it reaches a vertically downward extending position in which it will abut against the shoulder 18. When the leaf 11 and the leg 12 are fully extended the folding arm 24 will pass a point past dead center and prevent the leaves and legs from accidentally folding.

A collar 28 consisting of separate half circular portions 28a extends around the top section 13b of the extension tube 13 and is adapted to be held in position thereon by means of screws 29 which engage through outwardly extending flanges formed on the portions 28a. A link 30 for each of the folding arms 24 is pivotally mounted at its top end upon one of the sections 28a of the collar 28. A lever 31 is pivotally mounted at a point intermediate its ends upon a vertical column 32 extending from the top to the bottom of the hollow body 10. The lever 31 has one of its ends 31a pivotally attached to the bottom end of the link 30. The other of its ends 31b is pivotally attached to the section 24b of the folding arm 24 intermediate of its ends. The folding arms 24 are extended by raising one of the leaves 11 to a horizontal position which will correspondingly pivot the levers 31 to urge the links 30 upwards extending the top section 13b of the extension tube 13 through the top of the table 10a.

A means is provided for locking the plug 21 into the open end of the extension tube 13 in the closed position of the device to prevent articles stored therein from being stolen. This means also acts to hold the top section 13a extended when the device is in the open position. The means comprises a plate 33 attached to the top face of the hollow body 10. A bar 34 is pivotally attached to the plate 33 at one side of the opening 20 by means of a hinge 35. This bar is adapted to extend across the opening 20 and engage against the top face of the plug 21 for locking the plug into the extension tube 13. A lock 36 is attached to the top face of the bar 34 and has a bolt 37 which is adapted to engage beneath a keeper 38 mounted upon the plate 33 on the other side of the opening 20. A key not shown on the drawings is adapted to be inserted into the lock 36 for moving the bolt 37 from a position beneath the keeper 38 to a position within the lock body 36 so that the bar 34 may be pivoted to the vertical position when it is desired to extend the tube 13.

The bolt 37 of the lock 36 has an extending peg 39 having an enlarged head 39a which is adapted to engage into a bayonet slot 40 formed in the side of the top section 13b of the extension tube 13a. When the top section 13b is fully extended and the bolt 37 is in its closed position the enlarged head 39a of the peg 39 is adapted to pass through the enlarged end 40a of the bayonet slot 40. The key may then be inserted into the lock 36 and moved to extend the bolt 37 so that the body portion of the peg 39 will engage into the narrow end 40b of the bayonet slot 40 which will prevent this peg from accidentally disengaging the slot 40 and so hold the tube 13 against moving inwards to collapse the table.

In the closed position of the bar 40 the enlarged head 39a of the peg 39 is adapted to engage into a recess 41 formed in the plate 33 which acts to permit the bolt 37 to be moved from the open to the closed position, and vice versa. A handle 42 has its ends pivotally supported in bearings 43 attached to the plate 33 at the sides of the bar 34 and which is to be used for carrying the device when it is in its closed condition.

In Fig. 11 a plug 21' is shown which has a lamp 44 attached thereto. This plug may be inserted into the extended end of the tube 13 in place of the umbrella 23. The lamp 44 is provided with an electric cord 45 having a plug 46 which may be inserted into a conventional electric socket for supplying current to the lamp 44.

The operation of the device is as follows:

When it is desired to extend the leaves 11 and correspondingly extend the legs 12 and the tube 13, a key is inserted into the lock 36 and rotated to retract the bolt 37 from beneath the keeper 38 so that the bar 34 may be pivoted to the vertical position to permit the top section 13b of the tube 13 to be extended.

Then the leaves 11 are moved to the horizontal position which will cause the folding arm 24 to move outwards to extend the legs 12 to a position in which they will depend vertically from the bottom of the hollow body 10. When the folding arm 24 is moving outwards it will cause the lever 31 to pivot and urge the links 30 upwards. When the links 30 move upwards they will correspondingly move the top section 13a of the tube 13 to extend this section through the opening 20 formed in the table top 10a. When the top section 13b is fully extended the enlarged head 39a of the peg 39 is passed through the enlarged end 40a of the bayonet slot 40.

Then the key is turned to extend the bolt 37 from its closed position to its open position to cause the peg 39 to pass from the enlarged end 40a to the small end 40b of the slot 40. In the extended position the peg 39 will act to limit pivoting of the bar 34 and so hold the tube 13 in its extended position. When the tube is extended the plug 21 may be withdrawn from the open end thereof and the end 21b re-inserted into the tube 13 so that the umbrella may be opened above the table top 10a to shade it from the direct rays of the sun.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

1. A portable table and utility cabinet, comprising a hollow body having a top, table extension leaves hingedly mounted on the sides of said body and normally extending downwards along the sides and adapted to be extended upwards to horizontal positions, legs for the table hingedly

mounted on the sides of said body and normally extending upwards along the sides and adapted to be extended downwards to vertical positions, an extension tube mounted through said body from the bottom to the top for supporting an umbrella and normally retracted into the top of said body and extendable therefrom, and means cooperative between said table extension leaves and said legs and said extension tube for extending said tube from the top of said body and lowering said legs when said leaves are raised.

2. A portable table and utility cabinet, comprising a hollow body having a top, table extension leaves hingedly mounted on the sides of said body and normally extending downwards along the sides and adapted to be extended upwards to horizontal positions, legs for the table hingedly mounted on the sides of said body and normally extending upwards along the sides and adapted to be extended downwards to vertical positions, an extension tube mounted through said body from the bottom to the top for supporting an umbrella and normally retracted into the top of said body and extendable therefrom, and means cooperative between said table extension leaves and said legs and said extension tube for extending said tube from the top of said body and lowering said legs when said leaves are raised, shoulders attached to the bottom wall of said hollow body for limiting the pivoting of said legs to a position in which they will depend vertically from the bottom of said body.

3. A portable table and utility cabinet, comprising a hollow body having a top, table extension leaves hingedly mounted on the sides of said body and normally extending downwards along the sides and adapted to be extended upwards to horizontal positions, legs for the table hingedly mounted on the sides of said body and normally extending upwards along the sides and adapted to be extended downwards to vertical positions, an extension tube mounted through said body from the bottom to the top for supporting an umbrella and normally retracted into the top of said body and extendable therefrom, and means cooperative between said table extension leaves and said legs and said extension tube for extending said tube from the top of said body and lowering said legs when said leaves are raised, said extension tube being formed of separate sections slidably engaged one within the other, a flange formed on one of said sections by which the tube is attached to the bottom wall of said hollow body, said table top being formed with an opening through which the other of said sections is adapted to be extended.

4. A portable table and utility cabinet, comprising a hollow body having a top, table extension leaves hingedly mounted on the sides of said body and normally extending downwards along the sides and adapted to be extended upwards to horizontal positions, legs for the table hingedly mounted on the sides of said body and normally extending upwards along the sides and adapted to be extended downwards to vertical positions, an extension tube mounted through said body from the bottom to the top for supporting an umbrella and normally retracted into the top of said body and extendable therefrom, and means cooperative between said table extension leaves and said legs and said extension tube for extending said tube from the top of said body and lowering said legs when said leaves are raised, said extension tube being formed of separate sections slidably engaged one within the other, a flange formed on one of said sections by which the tube is attached to the bottom wall of said hollow body, said table top being formed with an opening through which the other of said sections is adapted to be extended, said means comprising folding arms connected between each adjacent leaf and leg, a link for each unit of said folding arms pivotally connected with the top section of said extension tube, and a pivotally mounted lever for each unit of said folding arms connecting together said links and folding arms so that when said leaves are pivoted to the horizontal they will correspondingly move said folding arms to pivot said lever and urge said link upwards to extend the top section of said tube through said opening.

5. A portable table and utility cabinet, comprising a hollow body having a top, table extension leaves hingedly mounted on the sides of said body and normally extending downwards along the sides and adapted to be extended upwards to horizontal positions, legs for the table hingedly mounted on the sides of said body and normally extending upwards along the sides and adapted to be extended downwards to vertical positions, an extension tube mounted through said body from the bottom to the top for supporting an umbrella and normally retracted into the top of said body and extendable therefrom, and means cooperative between said table extension leaves and said legs and said extension tube for extending said tube from the top of said body and lowering said legs when said leaves are raised, said extension tube being formed of separate sections slidably engaged one within the other, a flange formed on one of said sections by which the tube is attached to the bottom wall of said hollow body, said table top being formed with an opening through which the other of said sections is adapted to be extended, said means comprising folding arms connected between each adjacent leaf and leg, a link for each unit of said folding arms pivotally connected with the top section of said extension tube, and a pivotally mounted lever for each unit of said folding arms connecting together said links and folding arms so that when said leaves are pivoted to the horizontal they will correspondingly move said folding arms to pivot said lever and urge said link upwards to extend the top section of said tube through said opening, said folding arms being constructed of separate sections having their adjacent ends pivotally connected together and one of said sections being pivotally connected to a bracket attached to the underside of said leaves, and the other of said sections pivotally attached to brackets attached to said legs.

6. A portable table and utility cabinet, comprising a hollow body having a top, table extension leaves hingedly mounted on the sides of said body and normally extending downwards along the sides and adapted to be extended upwards to horizontal positions, legs for the table hingedly mounted on the sides of said body and normally extending upwards along the sides and adapted to be extended downwards to vertical positions, an extension tube mounted through said body from the bottom to the top for supporting an umbrella and normally retracted into the top of said body and extendable therefrom, and means cooperative between said table extension leaves and said legs and said extension tube for extending said tube from the top of said body and lowering said legs when said leaves are raised, said extension tube being formed of

separate sections slidably engaged one within the other, a flange formed on one of said sections by which the tube is attached to the bottom wall of said hollow body, said table top being formed with an opening through which the other of said sections is adapted to be extended, said means comprising folding arms connected between each adjacent leaf and leg, a link for each unit of said folding arms pivotally connected with the top section of said extension tube, and a pivotally mounted lever for each unit of said folding arms connecting together said links and folding arms so that when said leaves are pivoted to the horizontal they will correspondingly move said folding arms to pivot said lever and urge said link upwards to extend the top section of said tube through said opening, a collar extending around the top section of said extension tube, and said links having one of their ends pivotally attached to said collar on either side of said tube.

7. A portable table and utility cabinet, comprising a hollow body having a top, table extension leaves hingedly mounted on the sides of said body and normally extending downwards along the sides and adapted to be extended upwards to horizontal positions, legs for the table hingedly mounted on the sides of said body and normally extending upwards along the sides and adapted to be extended downwards to vertical positions, an extension tube mounted through said body from the bottom to the top for supporting an umbrella and normally retracted into the top of said body and extendable therefrom, and means cooperative between said table extension leaves and said legs and said extension tube for extending said tube from the top of said body and lowering said legs when said leaves are raised, said extension tube being formed of separate sections slidably engaged one within the other, a flange formed on one of said sections by which the tube is attached to the bottom wall of said hollow body, said table top being formed with an opening through which the other of said sections is adapted to be extended, said means comprising folding arms connected between each adjacent leaf and leg, a link for each unit of said folding arms pivotally connected with the top section of said extension tube, and a pivotally mounted lever for each unit of said folding arms connecting together said links and folding arms so that when said leaves are pivoted to the horizontal they will correspondingly move said folding arms to pivot said lever and urge said link upwards to extend the top section of said tube through said opening, columns extending from the top to the bottom of said hollow body, and said levers being pivotally supported upon said columns and having one of their ends pivotally attached to the free end of said link and the other of their ends attached to said folding arms intermediate of their ends.

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