L. J. MILLER.

FOLDING TABLE.

APPLICATION FILED JAN. 21, 1920.

1,416,048.

Patented May 16, 1922.

3 SHEETS—SHEET 1.

Fig. 1.

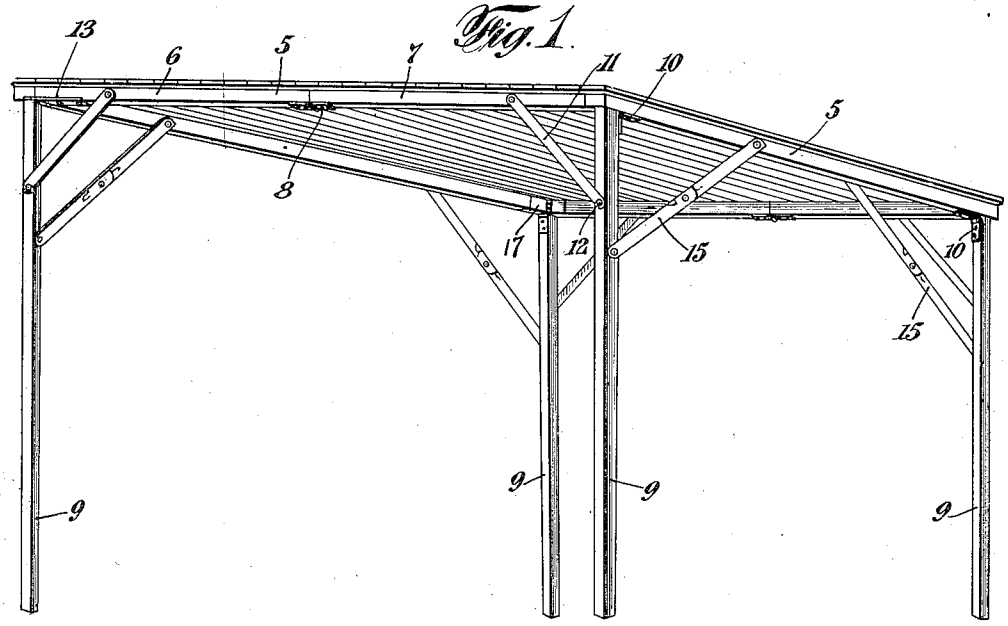
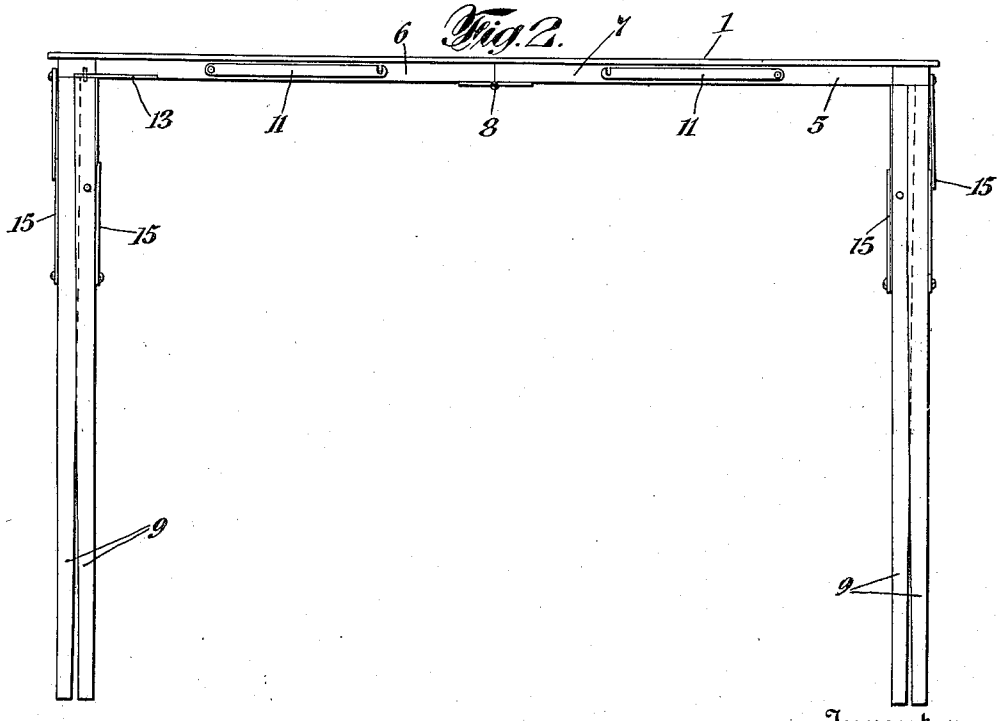


Fig. 2.



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3 SHEETS—SHEET 2.

Fig. 3

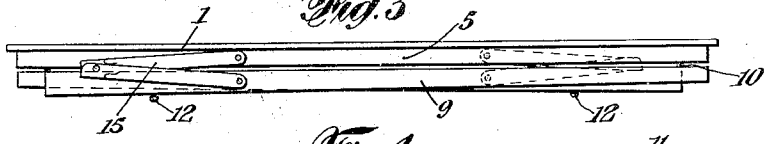


Fig. 4

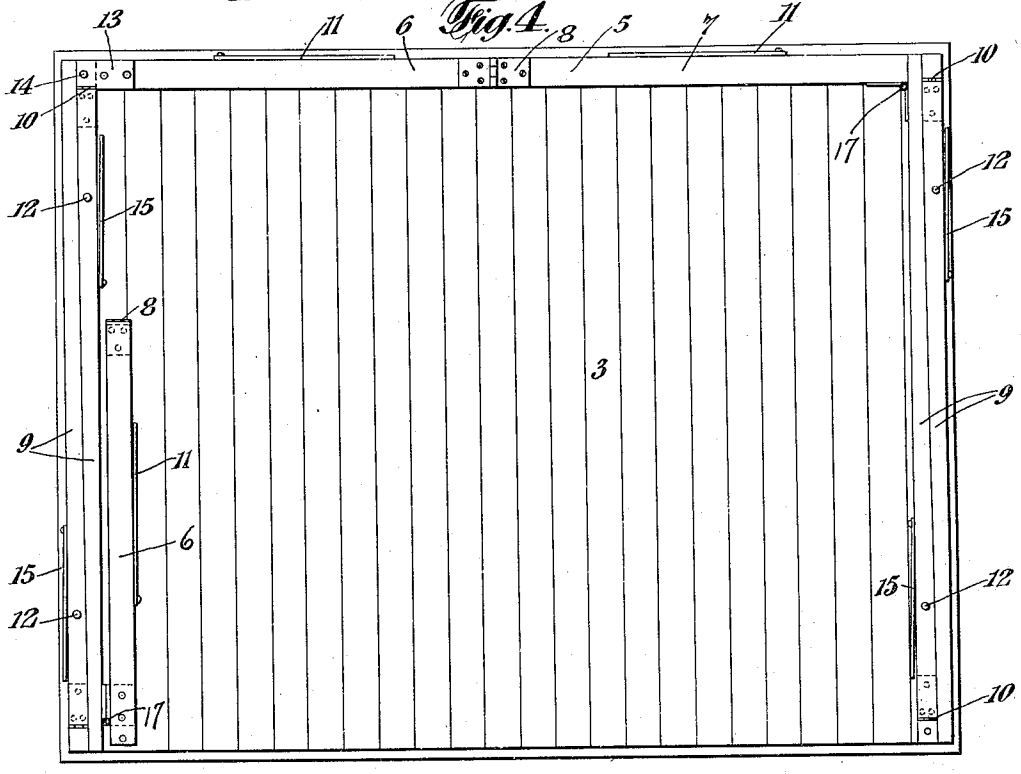


Fig. 5.

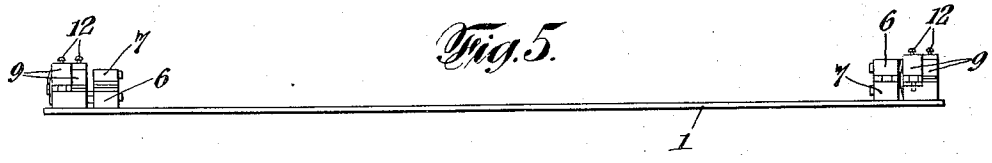
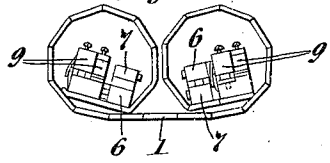


Fig. 6.



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3 SHEETS—SHEET 3.

Fig. 7.

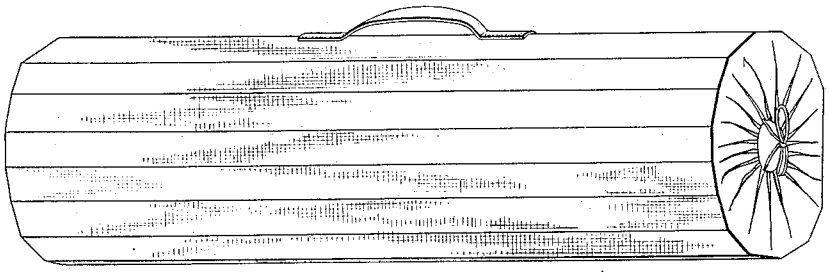


Fig. 8.

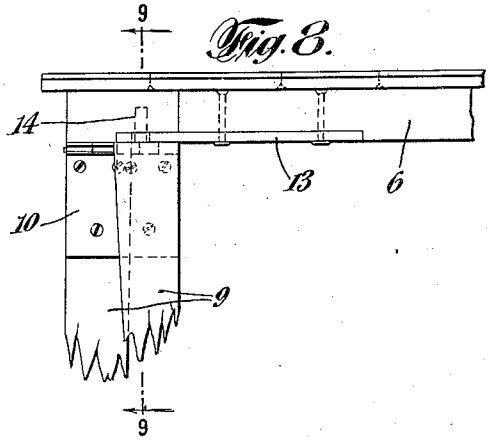


Fig. 9.

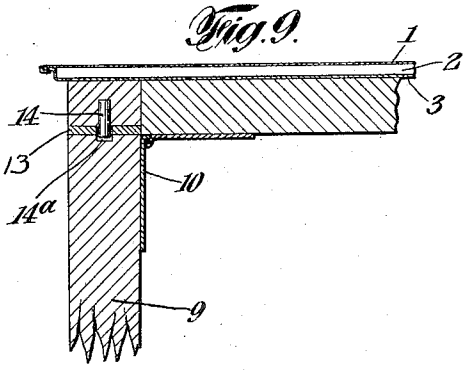
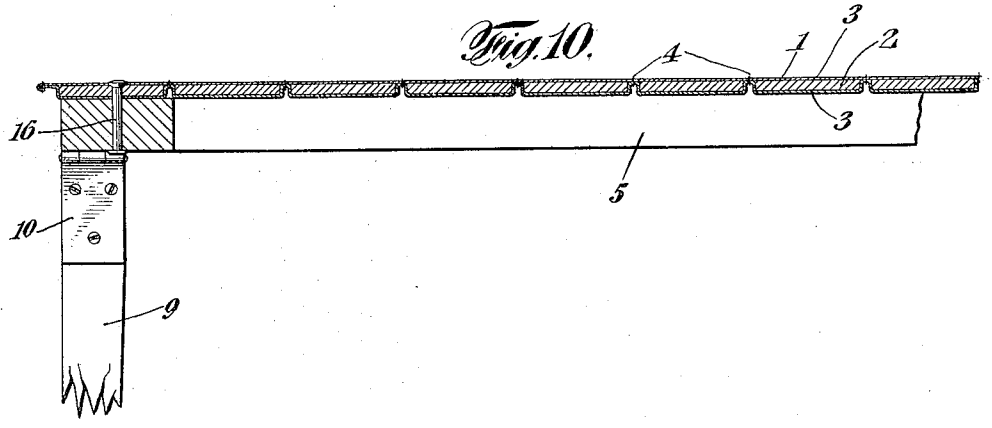


Fig. 10.



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UNITED STATES PATENT OFFICE.

LLOYD J. MILLER, OF NEWARK, NEW JERSEY, ASSIGNOR TO TELESCOPE COT BED COMPANY, INC., A CORPORATION OF NEW YORK.

FOLDING TABLE.

1,416,048. Specification of Letters Patent. Patented May 16, 1922.

Application filed January 21, 1920. Serial No. 352,975.

To all whom it may concern:

Be it known that I, LLOYD J. MILLER, a citizen of the United States, residing in Newark, county of Essex, and State of New Jersey, (whose post-office address is 32 N. Sixth Street, Newark, N. J.,) have invented certain new and useful Improvements in Folding Tables, of which the following is a specification.

My invention relates particularly to folding tables, although it is adapted for use for any article of furniture or other articles where it is desirable to have the article constructed in such a way that it is adapted to be folded, for the purpose of saving space when it is not in use, or for the purpose of transportation from place to place, or for any purpose wherein it is desirable to have a folding article of furniture.

While I have shown my invention as particularly adapted to tables, I would have it understood that it is also adapted for use for many articles of furniture, particularly camp furniture, such for instance, as cots, tubs, chairs or other similar articles.

I have shown in the drawings the invention as applied to a table, and will now describe the same.

Figure 1 is a perspective view of the table embodying my invention set up ready for use.

Figure 2 is a side view of Figure 1.

Figure 3 is an end view of the table partially folded.

Figure 4 is a bottom view of the table with the legs folded up out of position, and one-half of the supporting frame likewise folded.

Figure 5 is an elevation of the table entirely collapsed, ready to be rolled up.

Figure 6 shows the table rolled up ready to be put in the bag.

Figure 7 shows the bag in which the table has been placed.

Figure 8 is an enlarged elevation of one corner of the table.

Figure 9 is a section of line 9—9 of Figure 8.

Figure 10 is an enlarged vertical longitudinal section showing method of securing wooden strips and top of table to supporting frame.

In the drawings like characters refer to like parts.

1 is the table top which is made of a plurality of strips 2, of wood, metal, or any suitable substantially rigid material, arranged parallel to each other and held together by a cover 3, which is preferably made of leather, felt, imitation leather, wood slats, cotton flannel, oil cloth or any suitable flexible material. This cover is a two-ply cover sub-divided so as to form pockets in which the strips 2 are placed and held in position. The pockets are formed by stitching gluing or otherwise securing the portions of the cover material 3 together, as clearly shown by the stitching 4 in Figure 10. It will be noted that as they are shown the cover may be very easily rolled and when rolled it is as shown in Figure 6.

This table top 1 is preferably secured to a supporting frame 5 which, as shown in the drawings, is along the side formed of two side members for each side, and two single end members, the side members being each formed in two parts 6 and 7, hinged together with the hinge 8, the two part side members formed of the two parts 6 and 7 and hinged at 17 to the single end member, allowing them to be folded in a direction parallel to the top of the table against the end member; at the same time the member 6 of the side member is folded through the medium of the hinge 8 against the underside of the member 7. Legs 9 are provided for supporting the table top in position. These legs 9 are hinged by hinge 10 to the end members of the supporting frame 5. Folded joint braces 15, and braces 11, for locking the legs in position with relation to the end members are provided. One end of the brace 11 is pivotally secured to the supporting frame 5 and the other end is removably attached to the leg 9 by a notch engaging pin 12 on the leg. Of course, the pin could be secured to side member 7 of the supporting frame and the brace 11 fixedly secured on a pivot so as to rotate on the supporting leg 9. Folded joint brace 15 formed of two members pivoted together is attached at one end to the leg 9 and the other end to the supporting frame member 5, and is so arranged as to fold with the leg. When open, as shown in Fig. 1, this brace is held rigid in the ordinary way by a notch in one member engaging a projection in the other.

The side members of the supporting frame are provided at their free ends with a plate 13 fixedly secured thereto and projecting be-

yond the end of the side member 6. Between the upper end of the leg 9 and the lower side of the end member of the supporting frame to which end member the leg 9 is hinged by hinge 10, there is a pocket or cut-out portion substantially the same in form as the end of the plate 13. Fixedly secured in this pocket is a pin 14 adapted to engage in an opening 14ª in the plate 13 and to hold said plate against movement in a horizontal direction. When the plate 13 has been placed so that the pin 14 engages in the hole 14ª in the plate 13, the leg 9 is raised into its position perpendicular to the top of the table and thereby locks the plate 13 by means of the pin 14, in the pocket so that the members 6 and 7 forming the side members of the supporting frame are fixedly held in position. When the side and end members are in operative position a closed rectangular frame is provided thereby.

The braces 15, having been then moved to a position where they lock the leg 9 in position with relation to the end members of the supporting frame, the braces 11 are then moved so that they engage with the pin 12 and the frame and supporting legs are fixedly held in position.

As shown, the table top is fixedly attached by bolts 16, or in any other suitable manner, to the supporting frame so that when the frame has been entirely collapsed it is, as shown in Figure 5, ready for folding and may be folded or rolled as shown in Figure 6, and placed in the bag, as shown in Figure 7.

Of course, if desired, the table top could be made of one piece of material separate from the supporting frame and legs, or could be made of a plurality of strips separated from each other and placed on the top of the table.

As stated above, I have shown my invention as applied to a table, but it is equally adapted for use with many articles of furniture by merely substituting in place of the top a suitable structure to form with the legs the article of furniture desired; for instance, in place of the top as shown a cot-top could be substituted of canvas, or canvas and springs, or of springs; or if it is desirable to form a basin or tub, a flexible waterproof material such as rubber or rubberized cloth or oil-cloth could be attached to the supporting frame so that the portions within and surrounded by the frame would sag in the center to form a liquid containing vessel; or if desired to form a settee a suitable top could be used for that purpose, depending upon the construction desired.

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

1. A folding supporting frame for tables, cots, or similar articles, said frame provided with side members, fixedly secured at one end and comprising a plurality of parts adapted to be placed in collapsed or extended relation to each other; legs for said frame adapted to be folded, attached thereto; and releasable means at the free end of a side member adapted to hold said member in position when the frame is in use.

2. A folding supporting frame for tables, cots, or similar articles, said frame having a plurality of members adapted when in operative position to form a closed frame, one of said members being provided with a free end, legs attached to said frame and adapted to be folded with respect thereto, and means arranged to coact with said member at said free end and with one of said legs to hold said member in operative position.

3. A folding frame for tables, cots, or similar articles, said frame comprising a plurality of members, legs for supporting same, side members of said frame having one end connected to another portion of said frame by a folding connection and comprising a plurality of parts adapted to be placed in collapsed or extended relation to each other, the free end of each of said members being provided with means adapted to hold it in operative position when said supporting frame is in use.

4. A folding frame, and legs for said frame, said frame comprising side and end members, connecting means for said members permitting the same to be held in opened or in compacted relationship to each other, said means including a member detachably connecting a side and an end member, one of said legs being arranged to coact with said connecting member to lock the same and assist in holding said members in opened relationship to each other.

5. A folding table, a substantially rigid top adapted to be folded, a supporting frame for said top provided with side and end members, two of said members being formed of a plurality of parts and having each a free end and means co-acting with said free ends for holding said members in position when the table is in use.

6. A folding table comprising a plurality of parts attached to each other so as to form a substantially rigid and substantially flat top, a foldable supporting frame secured thereto comprising a plurality of side and a plurality of end members foldably connected to each other, legs attached to said frame so arranged as to be folded with said frame and rolled with said table top.

7. A folding table top adapted to be rolled, a supporting frame for said top comprising side and end members, two of said members being fixedly secured by means permitting their being folded, the free ends of said members being provided with releasable means for holding them in fixed position with relation to the other members

of said supporting frame, legs foldably attached to said frame for supporting said table.

8. A folding table top adapted to be rolled, a supporting frame for said top comprising side and end members, two of said members being fixedly secured by means permitting their being folded, the free end of each of said members being provided with means for holding it in fixed position with relation to the other members of said supporting frame, legs foldably attached to said frame for supporting said table, all so arranged that when said legs are in supporting position with relation to the table top, the free ends of said supporting frame members are locked in position.

9. A folding table comprising a top adapted to be rolled, a supporting frame therefor, comprising side and end members, two of said members formed of a plurality of parts, one end of each of said members being fixedly secured to other portions of said table, means for holding the free ends of said members in fixed relation for supporting the table top, legs foldably attached to said frame, said legs, frame and top being all so arranged as to be rolled together.

10. A folding table top adapted to be rolled, a supporting frame for said top comprising side and end members adapted when in operative position to form a closed rectangular frame, one of said members being supported by means permitting its being folded and having a free end provided with means for holding said member in fixed position with relation to the other members of the supporting frame, and legs foldably attached to said frame for supporting said table, also arranged that when said legs are in supporting position with relation to the table top, the free end of said supporting frame member is locked in position by one of said legs.

In testimony whereof, I have signed my name to this specification.

LLOYD J. MILLER.