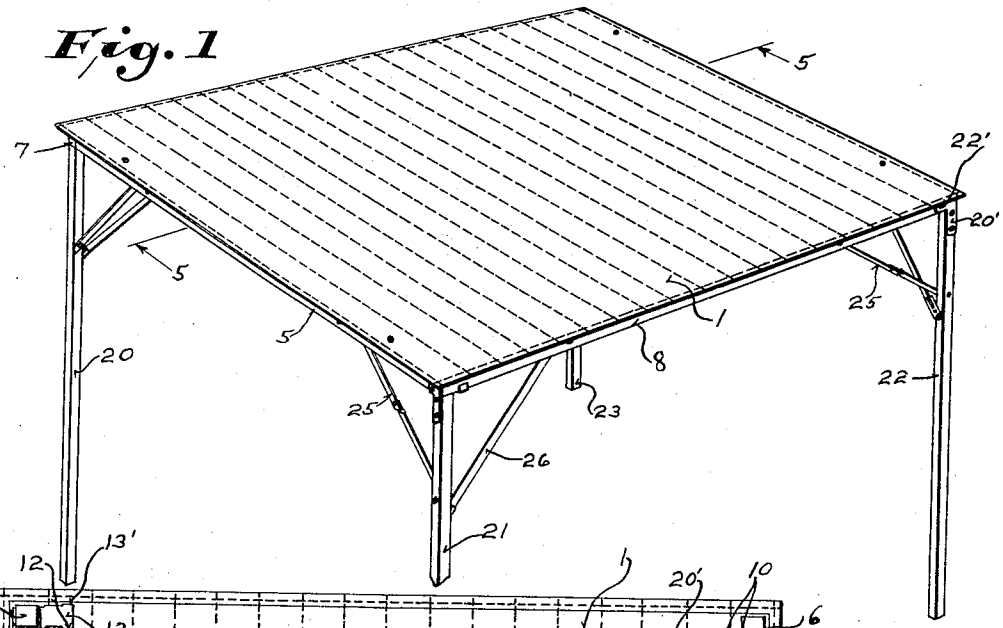
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FOLDING TABLE

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Fig. 1



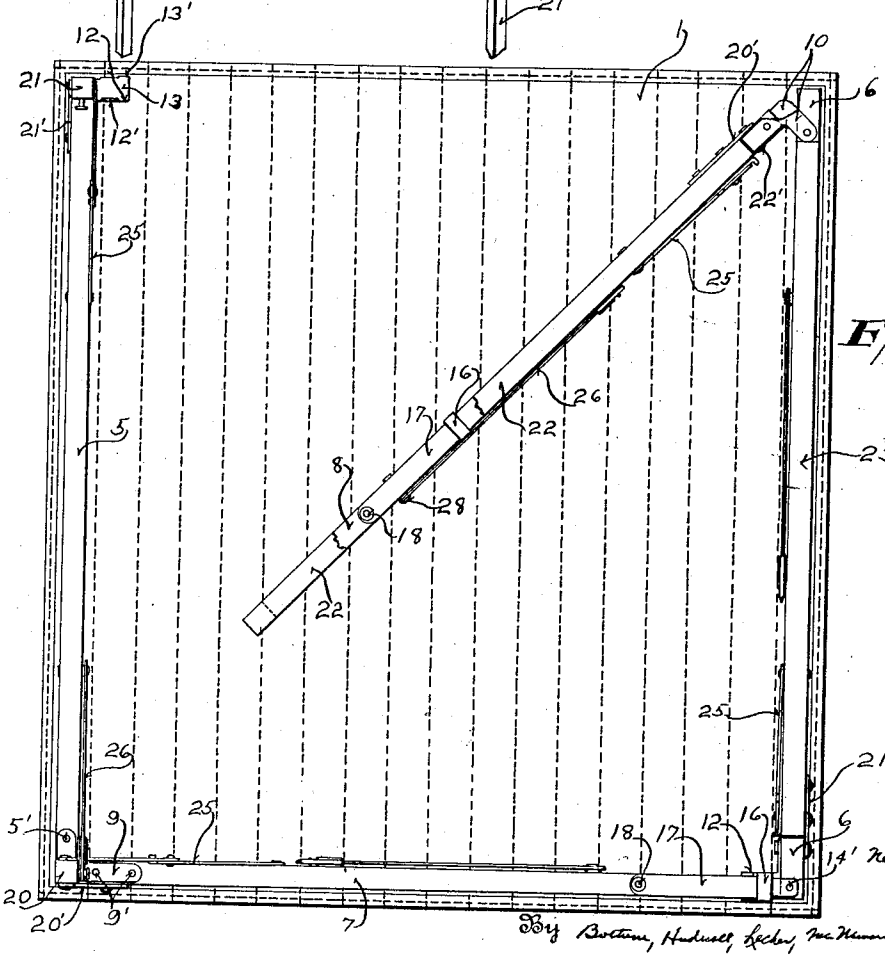


Fig. 2

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FOLDING TABLE

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Fig. 3

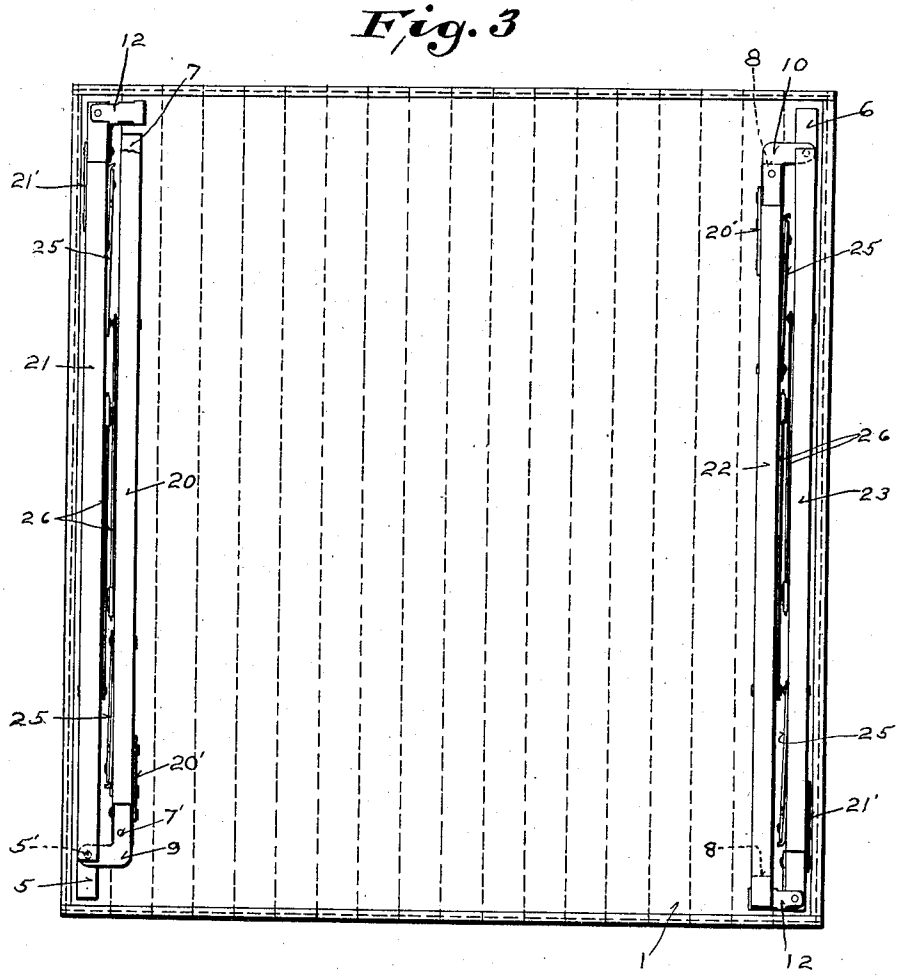
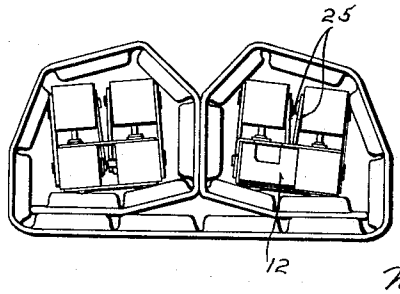


Fig. 4



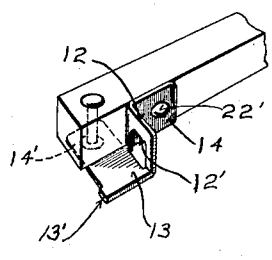


Fig. 9

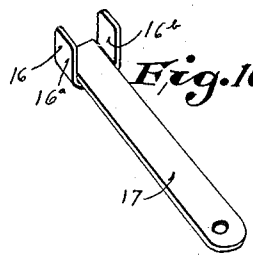


Fig. 10

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FOLDING TABLE

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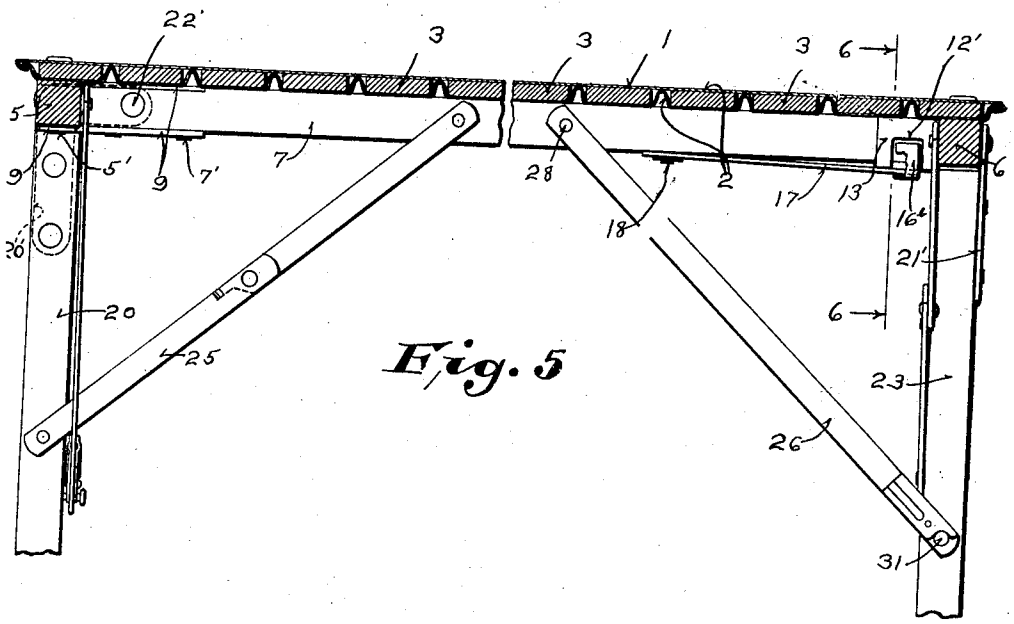


Fig. 5

Fig. 6

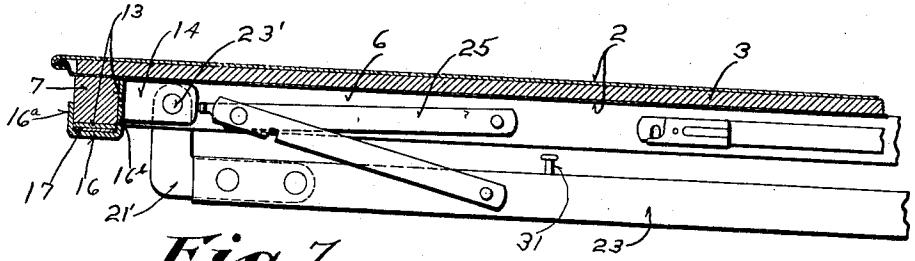


Fig. 7

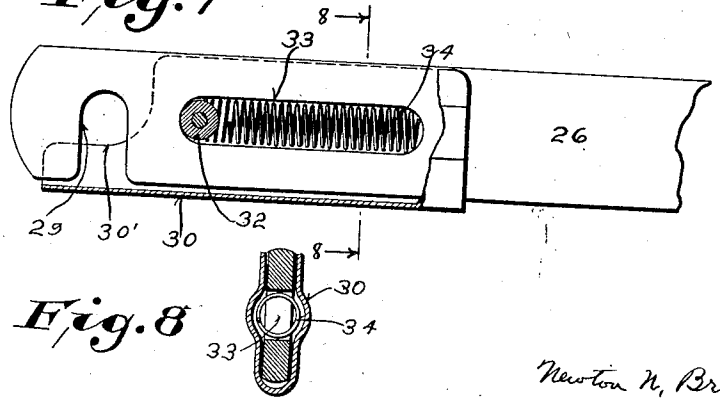


Fig. 8

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UNITED STATES PATENT OFFICE

NEWTON N. BROWN, OF RACINE, WISCONSIN, ASSIGNOR TO GOLD MEDAL FOLDING FURNITURE COMPANY, OF RACINE, WISCONSIN, A CORPORATION OF WISCONSIN

FOLDING TABLE

Application filed July 29, 1929. Serial No. 381,813.

This invention relates to a folding table especially designed for use by campers or tourists although also adapted for other diverse uses and applications.

One of the principal objects of the invention is to provide a folding table which may be easily set up and which, when set up, is rigid and steady. Further, the table may be easily knocked down or collapsed and folded and rolled into a compact easily handled and conveniently stored bundle.

Another object of the invention is to provide a table having these advantages and capacities and which is simple and durable in construction, reliable and effective in operation and easy and comparatively inexpensive to manufacture.

Other objects and advantages reside in certain novel features of the construction, arrangement and combination of parts which will be hereinafter more fully described and particularly pointed out in the appended claims, reference being had to the accompanying drawings, forming a part of this specification, and in which:

Figure 1 is a perspective view showing a table embodying the present invention, the table being set up;

Figure 2 is a bottom plan view of the table with parts shown as positioned in one phase of the setting up operation;

Figure 3 is a similar view showing parts of the table completely folded, but the top extended or rolled out;

Figure 4 is a view in end elevation showing the table completely folded and rolled into a compact bundle;

Figure 5 is a view in section taken on line 5—5 of Figure 1;

Figure 6 is a fragmentary sectional view taken on line 6—6 of Figure 5;

Figure 7 is a fragmentary detail view partly in side elevation and partly in section illustrating the spring latch construction provided on certain of the braces;

Figure 8 is a view in section on line 8—8 of Figure 7;

Figure 9 is a fragmentary perspective view showing the socket piece forming a part of the releasable connection provided between one end of each side bar and an end bar; and

Figure 10 is a detailed perspective view showing one of the clips and its blade spring employed to complete the releasable connections between the side and end bars.

Referring to the drawings, the numeral 1 designates generally a top which is adapted to be rolled. The top (see Figures 5 and 6) consists of a two-ply cover 2 of suitable fabric or other flexible material stitched along parallel lines to receive strips 3 of wood or other material, the edges of the cover being bound to hold the strips in place and give the table a finished appearance.

A supporting frame is provided for the top and comprises end members or end bars 5 and 6 secured by suitable fastening devices to the end strips 3 of the top 1 and side members or side bars 7 and 8 which, when the table is set up, extend between the ends of the end bars and at right angles thereto. As shown in Figures 2, 3 and 5, one end of the side bar 7 is connected by a pair of horizontal disposed L-shaped hinge members 9 to one end of the bar 5, each hinge member 9 being riveted as at 7′ to the side bar 7 and pivoted as at 5′ to the end bar 5. Similarly one end of the side bar 8 is connected by a similar pair of L-shaped hinge members 10 to one end of the end bar 6. As shown in Figures 2 and 3, the hinge connections 9 and 10 between the side bars and end bars are at diagonally opposite corners of the supporting frame and permit the side bar 7 to be folded flatly up against the inner face of the end bar 5 and the side bar 8 to be folded flat up against the inner face of the end bar 6 when the table is knocked down.

For releasably securing the free end of the end bars 5 and 6 to the side bars 8 and 7, respectively, readily detachable fastening devices designated generally at 12 are provided. These fastening devices are of identical construction and as shown to advantage in Figures 6, 9 and 10 each comprises a bracket or socket piece 13 of angular formation and having an attaching wing 14 formed integral with one of the sections of the angu-

lar socket piece and fastened to the inner face of its end bar and an attaching portion 14′ fastened to the under face of its end bar. The angular body of the socket piece is so disposed as to have the sections thereof engageable with the inner and under surfaces of the side bar with which it coacts. In this way the socket piece rigidly holds the side bar against downward, inward or twisting movement. The table top precludes upward movement of the side bar. In order to prevent the ends of the side bars from moving outwardly from their socket pieces and also to preclude the side bar from moving longitudinally away from the end bars to which they are detachably secured, U-shaped clips 16 are provided and are welded or otherwise fixedly secured to and carried by the outer ends of blade or leaf springs 17. The end of each leaf spring 17 opposite its clip 16 is pivotally attached to its side bar as indicated at 18. Each leaf spring may be flexed to raise its clip 16 above its side bar to permit it to be engaged with or disengaged from its socket when the table is being set up or knocked down or to be engaged with or disengaged from its side bar when the leaf spring and clip are to be held in inoperative or inactive position. Pivotal movement of the blade or leaf spring 17 after they have been flexed upwardly position the clips 16 in either operative position when they engage their respective socket pieces or in inoperative positions where the clips 16 overlie intermediate portions of their respective side bars. Each clip 16 when engaged with its socket piece has one of its side members 16^a engaged with a lug 13′ formed integral with one section of the angular socket piece and has its other side member 16^b fitted in a notched or cut out portion 12′ of the other section of the angular socket piece thereby precluding the side bars from moving longitudinally out of their socket pieces.

Legs 20, 21, 22 and 23 are provided at the corners of the table. L-shaped hinges 20′ connect the legs 20 and 22 to the side members 7 and 8, the hinge members 20′ being riveted to their respective legs and being pivotally connected to the side members 7 and 8 by pivot pins 22′ mounted in the side members adjacent the hinged ends thereof, that is, adjacent the ends of the side members that are hinged to the end members. Similar L-shaped hinges 21′ pivotally connect the legs 21 and 23 to the end members 5 and 6, these hinges 21 also being riveted to their respective legs and being pivotally connected to their respective side members 5 and 5 by the same pins 23′ that are employed for fastening the attaching wings 14 of the socket pieces 13 to the end members (see Figures 7 and 10). The L-shaped formation of the hinged members 20′ and 21′ is such and their respective pivot pins are so located that when the table is set up the upper ends of the legs engage the under surfaces of the corners of the supporting frame.

Each leg is provided with a jointed brace 25 which extends between its leg and the frame member down onto which the leg folds and also with a releasable and foldable brace 26 which, when the table is set up extends between its leg and the adjacent frame member that extends at right angles to the frame member to which its leg is pivoted or hinged. Each releasable and foldable brace is pivotally connected as at 28 to the frame member with which it is associated and at its opposite end has a notch 29 adapted to receive a headed stud 31 provided on its leg. A keeper 30 slidably embraces each brace 26 adjacent its notched end and is inter-connected with its brace for such sliding movement by means of a pin 32 carried by the keeper and operating in a slot 33 formed in each brace 26. A spring 34 is interposed between one end of the slot 33 and pin 32 and biases the keeper to a position where it closes the entrance to the notch 29. Each keeper 30 has one end reduced as at 30′ to provide the clearance necessary for the stud 31. Obviously the keepers serve to releasably retain the braces 26 interconnected with their studs 31.

The table collapsed and rolled up is shown in Figure 4. To set up the table it is first rolled out to the position shown in Figure 3. The side members 7 and 8 with their legs 20 and 22 are then swung around to a position at right angles to the end members 5 and 6. Figure 2 illustrates the side member 7 in its set up position and the side member 8 in an intermediate position. The side members when swung around to a position at right angles to the end members the first have their free ends carried over the socket pieces 13 and then entered into the sockets defined by these pieces 13 through the outer open sides thereof. This entering of the free ends of the side members into the socket pieces is facilitated by pulling the legs 20 and 22 upwardly away from their side members. After the ends of the side members have been entered into the socket pieces 13 the clips 16 are brought from the position shown in connection with the side member 8 in Figure 2 to the position shown in connection with the side member 7 in the same figure thereby locking the side members to the end members and providing a rigid supporting frame. The legs 20, 21 and 22 are then all pulled up to a vertical position and secured in such position by the braces. The table is completely set up as shown in Figure 1. To knock down the table the releasable and foldable braces 26 are disconnected and folded back against their frame members; the U-shaped clips are disengaged from

their socket pieces; the jointed braces 25 are partially broken or folded; the ends of the end members 7 and 8 are withdrawn from the socket pieces and swung over against their respective end members 5 and 6; and legs 21, 22 and 23 are folded down against the frame members 7, 5, 8 and 6 respectively. This brings all the parts back in the position shown in Figure 3 and permits the top to be rolled into the compact bundle shown in Figure 4.

The invention claimed is:

1. A folding table comprising a top to be rolled, a supporting frame for said top including side and end members, ends of the side members being hingedly connected to ends of the end members at diagonally opposite corners of the frame, socket pieces attached to said end members and having open sides to permit of the insertion and removal of the ends of the side members, means for releasably holding the ends of the side members in said sockets, and legs pivotally connected to the end members and side members and adapted to be folded down thereagainst so as to be extended therefrom.

2. A folding table comprising a top to be rolled, a supporting frame for said top comprising side and end members, ends of the side members being hingedly connected to ends of the end bars at diagonally opposite corners of the frame, consisting of socket pieces attached to said end members and having open sides to permit of the insertion and removal of the ends of the side members, leaf springs pivotally attached to the side members and having U-shaped clips at their outer ends adapted to embrace the sockets and engage the side members therein in one position and to embrace their side members in another position, and legs pivotally connected to the end members and side members and adapted to be folded down thereagainst so as to be extended therefrom.

3. A folding table comprising a top, a supporting frame for said top including side and end members, ends of said side members being hingedly connected to ends of said end members at diagonally opposite corners of the frame, socket pieces attached to said end members and adapted to receive ends of the side members, each socket piece including an angular body having sections adapted to engage the under side and inner side of its side member, releasable means carried by the side members and cooperable with the sockets to hold the side members therein and legs pivotally connected to the frame and foldable against the members thereof.

4. A folding table comprising a top, a supporting frame for said top including side and end members, ends of said side members being hingedly connected to ends of said end members at diagonally opposite corners of the frame, socket pieces attached to said end member and adapted to receive ends of the side members, each socket piece including an angular body having sections adapted to engage the under side and inner side of its side member, releasable means carried by the side members and cooperable with the sockets to hold the side members therein, said socket pieces and said means having interengaging parts to prevent the side members from moving longitudinally out of the socket pieces and legs pivotally connected to the frame and foldable against the members thereof.

5. A folding table comprising a top to be rolled, a supporting frame for said top comprising side and end members, ends of the side members being hingedly connected to ends of the end bars at diagonally opposite corners of the frame, consisting of socket pieces attached to said end members and having open sides to permit of the insertion and removal of the ends of the side members, leaf springs pivotally attached to the side members and having U-shaped clips at their outer ends adapted to embrace the sockets and engage the side members therein in one position and to embrace their side members in another position, each socket piece having a lug and a notch cooperable with its U-shaped clip to prevent the side members from pulling out the socket pieces and legs pivotally connected to the end members and side members and adapted to be folded down thereagainst so as to be extended therefrom.

6. A folding table comprising a top, a supporting frame for the top including side and end members, a hinged connection between each side member and one end of one of said end members, said hinged connections being at diagonally opposite corners of the frame, releasable connections directly and positively interconnecting the free ends of the side members and the end members, a leg hinged to each end member adjacent its releasable connection to a side member, a leg hinged to each side member adjacent its hinged connection to a leg member, said legs being foldable down onto the frame members to which they are hinged and braces for releasably holding the legs extended.

In witness whereof, I hereto affix my signature.

NEWTON N. BROWN.