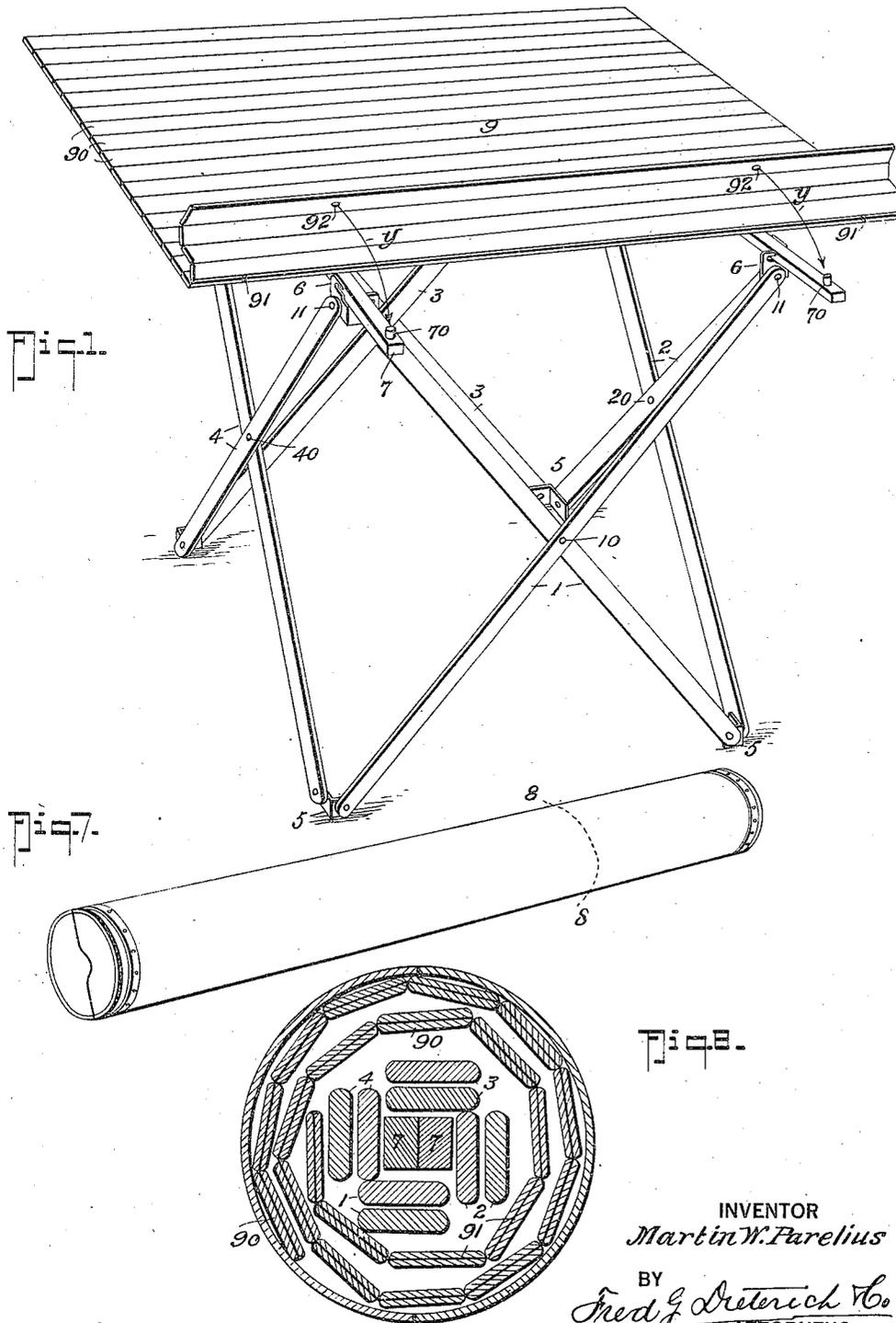


M. W. PARELIUS.
COLLAPSIBLE TABLE.
APPLICATION FILED FEB. 11, 1918.

1,295,194.

Patented Feb. 25, 1919.
2 SHEETS—SHEET 1.

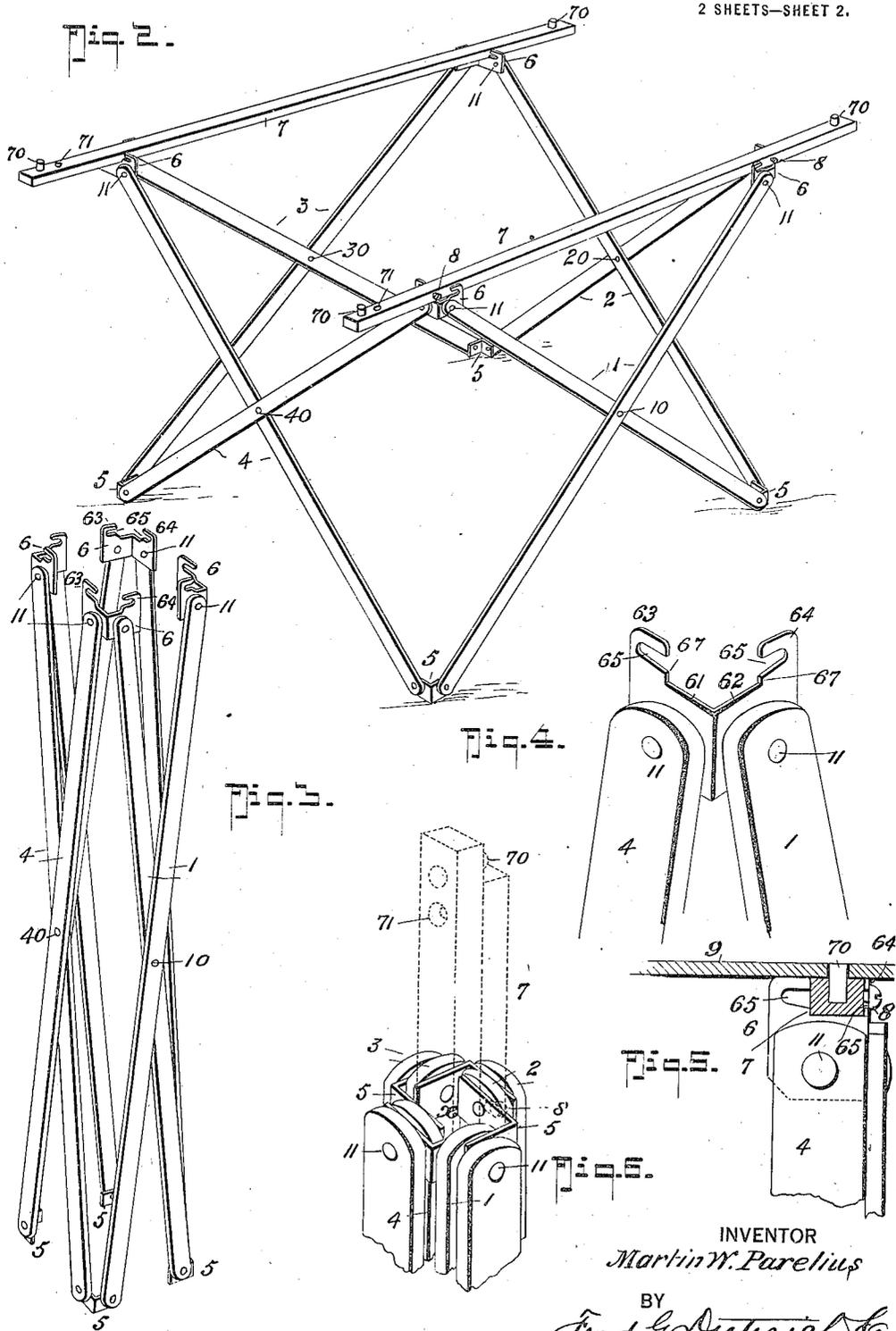


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COLLAPSIBLE TABLE.

1,295,194.

Specification of Letters Patent.

Patented Feb. 25, 1919.

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To all whom it may concern:

Be it known that I, MARTIN W. PARELIUS, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented a new and Improved Collapsible Table, of which the following is a specification.

My invention has reference to that class of collapsible or foldable tables adapted for picnic and other like outing purposes; and as a mess table for armies, etc., and it primarily has for its purpose to provide a table of the general character stated, the several parts of which may be readily folded together in a compact and a comparatively small space for packing and transportation and which, when set up for use, is strong and rigid.

Another object of my invention is to provide a table consisting of a supporting pedestal or stand and a roll top removably mounted on the said stand, the latter being designed and constructed so as to embody maximum rigidity with minimum weight and number of parts, the parts being also correlatively so arranged that the top may be instantly detached from the stand and rolled up, and the stand folded flatwise into such a compact body, whereby it can be readily slipped within the rolled up top and the whole assembled to be conveniently stored or transported.

Another object of my present invention is to provide, in an improved table structure of the character stated, two end and two side elements, each composed of two cross diagonal centrally pivoted legs with the respective adjacent lower ends of the several sets of side and end elements pivotally joined in such manner that the spreading or contracting of one or more of the said elements effects the spreading and contracting of the entire supporting structure which, when at the limit of its folded or contracted condition, forms a substantially compact elongated body.

Again, my invention seeks to provide a table structure comprising an improved collapsible supporting frame, top supporting bars, cooperating elements on the bar and the upper corners of the supporting frame that are so arranged that the supporting bars can be placed in their operative position when the supporting frame is partly extended and the said bars relatively so mounted with respect to the supporting

frame that the application of a downward pressure on the said bars tends to extend the supporting frame to the limit and automatically effects the interlocking of the bars and the supporting frame, whereby to hold the said frame rigid and in condition for receiving the top upon the supporting bars, the latter and the top having interlocking means.

Furthermore, my invention seeks to provide in a table construction of the kind stated, an expansible and contractible supporting frame, top supporting bars adapted for engaging the opposite side or end members of the supporting frame, the top corners of the said supporting frame having locking brackets for receiving the said bars and the said bars have locking elements adapted for automatically moving into an interlocked engagement with the said bracket, when pressure is applied upon the bars for extending the supporting frame to become automatically interlocked from the said bracket as pressure is applied to fold up or contract the said supporting frame.

With other objects in view that will hereinafter appear, my invention provides an improved construction of table of the general type stated, including the details of structure and the peculiar combination of parts fully explained in the following description, specifically pointed out in the appended claims and illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of a table constructed in accordance with my invention, the parts being at their assembled position, one end of the roll top being turned back to illustrate the top and the top supporting bars interlocking means.

Fig. 2 is a similar view of the supporting frame, the latter being shown at a partly extended position and illustrates the manner in which the top supporting bars and the said frame are adapted for being adjusted to their final or interlocking position.

Fig. 3 is a perspective view which shows the supporting frame, the parts being indicated as near the final closure or folded position.

Fig. 4 is a perspective view of the upper ends of a pair of adjacent supporting legs that constitute one corner of the supporting frame.

Fig. 5 is a detail transverse section of one of the table top supporting bars, a portion

of the roll top locked thereon, an adjacent corner portion of the supporting frame and a bar and frame interlocking device.

Fig. 6 is a perspective view of one end of the supporting frame, the parts being at their final folded up position, the manner in which the table top supporting bars are assembled therewith being indicated in dotted lines.

Fig. 7 is a perspective view that shows the folded up table packed in a tubular-shaped receptacle.

Fig. 8 is a cross section on the line 8—8 on Fig. 7.

In carrying out my invention, I provide a supporting structure in the nature of a frame formed of four pairs of cross legs, designated 1—2—3—4, each pair being united by a central pivot designated 20—20—30—40.

The lower ends of each pair of legs are flexibly joined with the coincident ends of the leg members of adjacent pairs of legs by angled plates 5 to each of which is pivotally connected an adjacent pair of the front and side leg members.

The upper ends of the side and front pairs of cross legs are pivotally connected by rivets 11 to corner plates 6, preferably of heavy galvanized iron bent into right angled shape to constitute front and side faces to which the said upper ends of the respective front and side leg members are connected, as is clearly shown in Fig. 4 which also shows the upper edge of the angled faces of the plate formed with a pair of notched seats 61—62 disposed at right angles to each other, the ends of which terminate at vertical extensions 63—64 whose edges, that face the seats 61—62, are formed with horizontal locking slots 65—65, the purpose of which will presently appear.

By constructing the legs that constitute the frame, of four sides, each consisting of a pair of cross leg members and providing the said cross leg members with specially arranged corner connections that join the upper and lower adjacent leg ends as stated and shown, the framing can be quickly folded up in a very compact shape, as indicated by Fig. 3, which shows the frame as closed nearly to its limit. Figs. 6, 7 and 8 show the parts that constitute the framing, adjusted to the completely closed condition, it being apparent that, when folded to the said condition, as indicated in Fig. 6, a central opening x , square in cross section, extends the full length of the folded up frame.

Coöperating with the foldable frame is a pair of top supporting bars 7—7, each of which, at each end, has a dowel pin 70 and an adjacent aperture 71, the said pins and apertures on the two bars providing for locking said bars flatwise onto each other to

permit of sliding them into the central opening x of the closed up framing, as is indicated in dotted lines in Fig. 6 and as is shown in full lines in the horizontal section Fig. 8.

Each bar 7 is of such width that, when placed in operative connection with the extended frame, they will snugly engage the notched edge seats 61 or 62 according to the direction the bars are placed on the framing, it being understood that, when mounted on the said framing as shown in Figs. 1 and 2, the said bars are guided along their opposite edges by the shoulder 67 at one side and the vertical extension 63 or 64 on the other side.

Each bar 7, along one edge, has a pair of laterally projected headed screw studs 8—8 and they form locking elements with which the notches 65 of the member 63 engage, when the table frame is bodily extended, it being obvious from Fig. 2 that, when the bars 7—7 are placed on the corner brackets 6—6 in the manner indicated, that any downward pressure applied to the said bars 7—7 causes the leg portion to spread until the screw studs 8 engage and interlock with the notches 65 of the corner or bracket members 63.

The table top 9, in my construction of table, is composed of an apron of slats flexibly connected, preferably by wire 91, threaded through the several slats.

In putting the top in position, the apron of slats is unrolled and disposed flatwise on the bars 7—7. The opposite end slats have apertures 92—92 that interlock with the studs 70—70 on the bars 7—7, as indicated by the dotted arrows y — y on Fig. 1.

From the foregoing description taken in connection with the drawings, the complete construction, the manner of setting up my table and folding the parts so that the supporting frame and the top bars may be readily closed up into compact form for rolling the slatted apron table top around the said folded frame structure, will be readily apparent.

One of the advantages in forming the parts that constitute my table structure as stated and shown, is that they may be quickly folded up and the folded pack can be quickly inserted into a tubular receptacle, see Figs. 7 and 8, for shipping and storing.

My construction of table is simple and the parts are individually so designed that they may be produced at a practical nominal cost, to thereby provide for the production of a table of the character stated of a strong and durable nature and at a relatively small expense.

What I claim is:

1. In a folding table, a supporting frame comprising four pairs of cross legs, each pair united by a central pivot, the upper and the lower corner ends of the legs of each adja-

cent pair of legs being pivotally joined, the upper corner connections of the pairs of legs having seat portions, a pair of parallelly disposed bars adapted to slidably engage the said seat portions and interlocking elements on the said seat portions and the bars that automatically interlock, when the supporting frame is spread to a predetermined extent, and to unlock, when the said frame is closed up, and a top supportable upon the said bars.

2. In a folding table, a supporting frame comprising four pairs of cross legs, each pair united by a central pivot, the upper and the lower corner ends of the legs of each adjacent pair of legs being pivotally joined, the upper corner connections of the pairs of legs having seat portions, a pair of parallelly disposed bars adapted to slidably engage the said seat portions and interlocking elements on the said seat portions and the bars that automatically interlock, when the supporting frame is spread to a predetermined extent, and to unlock, when the said frame is closed up, and a slatted apron top supportable upon the said bars, the latter and the end slats of the slatted apron having interlocking elements.

3. In a folding table, a supporting frame comprising four pairs of cross legs, each pair united by a central pivot, the upper and the lower corner ends of the legs of each adjacent pair of legs being pivotally joined, the upper corner connections of the pairs of legs having seat portions, a pair of parallelly disposed bars adapted to slidably engage the said seat portions and interlocking elements on the said seat portions and the bars that automatically interlock, when the supporting frame is spread to a predetermined extent, and to unlock, when the said frame is closed up, a top supportable upon the said bars, the said pivotal connections at the top and bottom corners of the supporting frame being such, whereby, when the frame is folded up, a central opening extending the full length of the folded frame is provided, the said top bars being folded upon each other and adapted to slide and fit the said

central opening, whereby the frame with the bars may be incased by the slatted table top and the said parts adapted for packing as a whole.

4. In a folding table, a supporting frame comprising four pairs of cross legs, each pair united by a central pivot, the lower corner members of the frame being pivotally joined, right angled brackets for each of the upper corners of the frame, the upper ends of the leg members being pivotally joined to their respective faces of the brackets, each of the brackets having a pair of seat notches arranged at right angles to each other, a pair of top supporting bars that slidably engage selected opposite parallel pairs of the said seats, means for interlocking the said bars and the brackets, when the frame is extended, and a top supportable upon the said bars.

5. In a folding table, a supporting frame comprising four pairs of cross legs, each pair united by a central pivot, the lower corner members of the frame being pivotally joined, right angled brackets for each of the upper corners of the frame, the upper ends of the leg members being pivotally joined to their respective faces of the brackets, each of the brackets having a pair of seat notches arranged at right angles to each other, a pair of top supporting bars that slidably engage selected opposite parallel pairs of the said seats, means for interlocking the said bars and the brackets, when the frame is extended and a top supportable upon the said bars, the said interlocking means including a pair of vertical extensions on each bracket, the extensions being arranged at right angles to each other and in line with their respective seat notches, the said extensions each having an open ended slot facing their respective seat notches, and a pair of headed studs attached to and projected laterally from each of the top supporting bars and adapted, when downward pressure is applied on the said bars to extend the leg frame, to engage with the locking slots in the bracket extensions.

MARTIN W. PARELIUS.