

1,351,013.

G. R. STINE.
FOLDING FURNITURE.
APPLICATION FILED OCT. 13, 1919.

Patented Aug. 24, 1920.

2 SHEETS—SHEET 1.

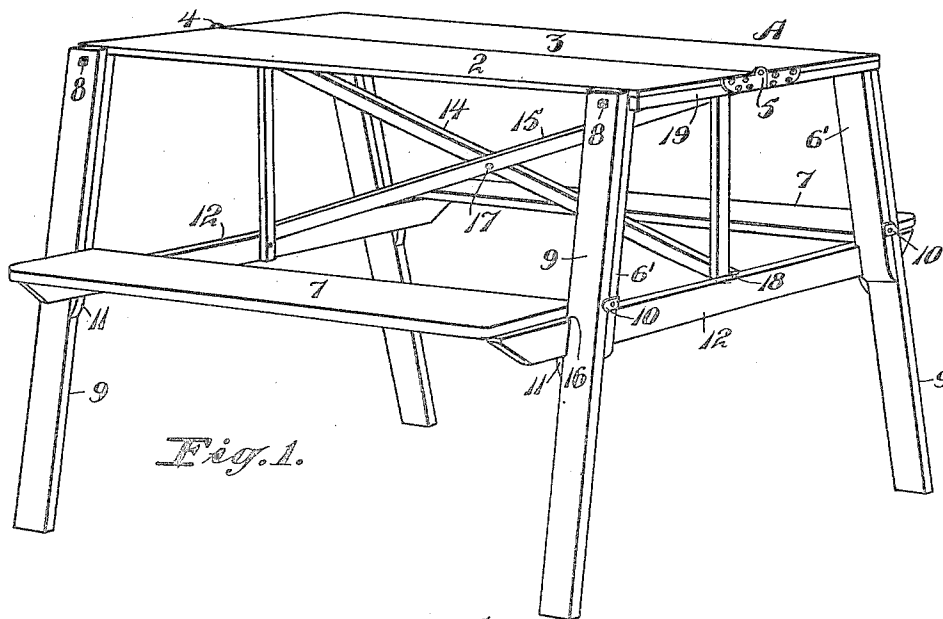


Fig. 1.

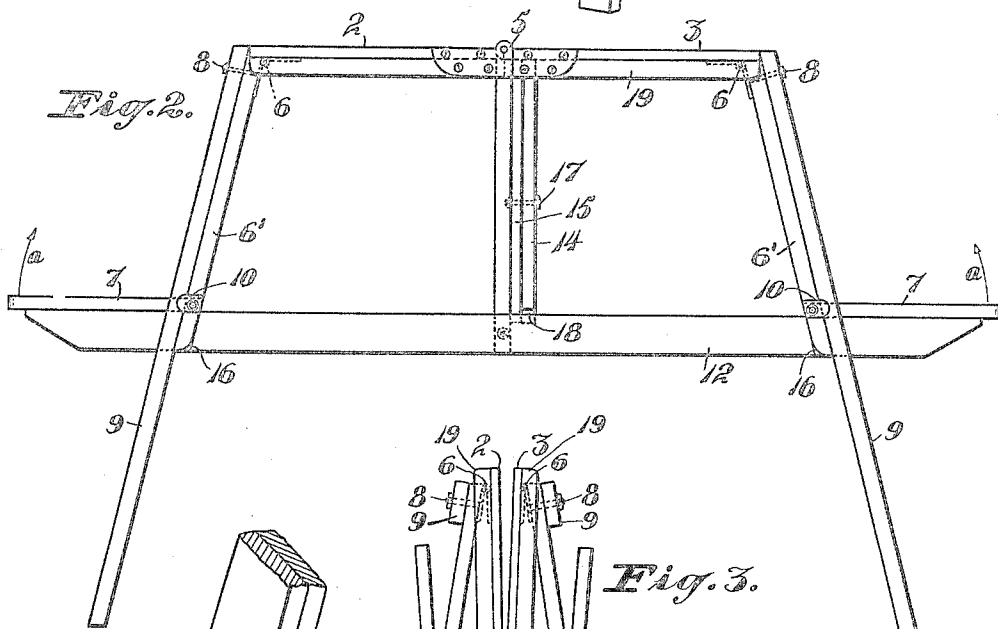


Fig. 2.

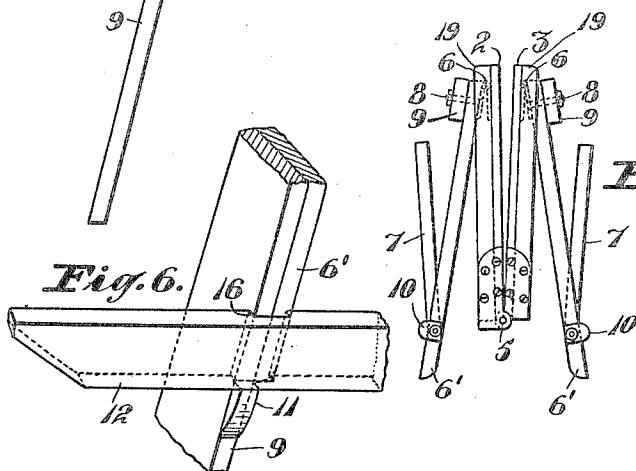


Fig. 3.

Fig. 6.

INVENTOR

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2 SHEETS—SHEET 2.

Fig. 4.

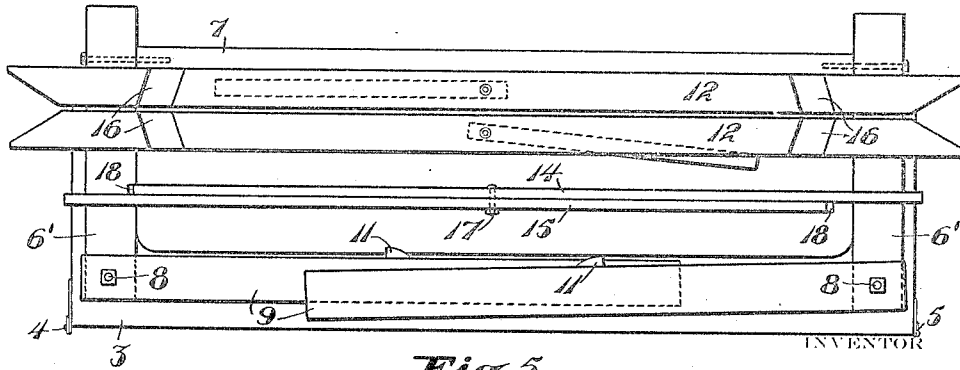
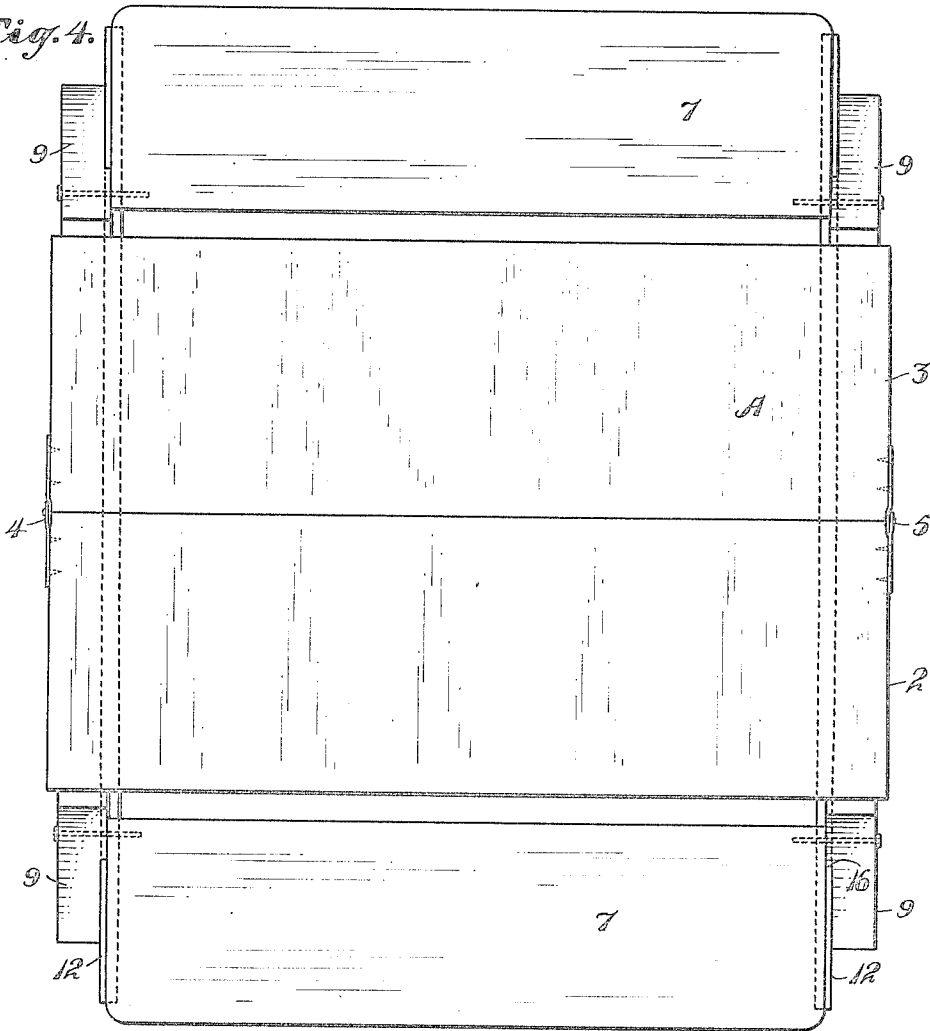


Fig. 5.

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UNITED STATES PATENT OFFICE.

GEORGE R. STINE, OF LOS ANGELES, CALIFORNIA.

FOLDING FURNITURE.

1,351,013.

Specification of Letters Patent.

Patented Aug. 24, 1920.

Application filed October 13, 1919. Serial No. 330,443.

To all whom it may concern:

Be it known that I, GEORGE R. STINE, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Folding Furniture, of which the following is a specification.

This invention relates to folding furniture and particularly to a foldable camping table and integral seats therefor.

One of the objects of the present invention is to provide a combination folding table and seats, particularly adapted for picnic outings, camping, pleasure resorts and the like, which is simple and substantial in construction, cheap to manufacture, and which is so designed that the table and seats may be quickly folded into a compact unit for shipment or storage and just as readily extended, when required.

Another object of the invention is to provide means for rigidly bracing the table and the seats when unfolded and for locking the same against folding movement.

Further objects will hereinafter appear.

The invention consists of the parts and the construction, combination and arrangement of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a perspective view of the table.

Fig. 2 is an end elevation.

Fig. 3 is an end elevation of the table when folded.

Fig. 4 is a plan view of the table.

Fig. 5 is a side elevation of the parts in folded position.

Fig. 6 is a detailed view showing the recess on the cross-bar for locking the cross-bar, the supporting legs and the hangers respectively.

Referring to the drawings in detail, A indicates in general a table top consisting of two sections 2 and 3. These sections are centrally connected at each end by hinges such as shown at 4 and 5. Hingedly connected to each corner of the table top, as at 6', are four hangers, two on each side of the table top, and pivotally mounted between the lower ends of each pair of hangers is a seat 7 which may be swung upwardly in the direction of arrow *a* (see Fig. 2), to assume a position parallel with the hangers 6'. Pivotally secured to the upper ends of the

hangers, as at 8, are leg members 9, and secured on the lower end of each hanger 6' is a stop lug 10 which limits the swinging movement of the legs 9, as will hereinafter be described.

Formed on each leg 9 at a point near the lower ends of the hangers are outwardly projecting shoulders 11, and adapted to be supported by said shoulders are cross bars 12. These cross bars serve three functions; first, that of supporting the seat sections 7 when they are unfolded, as shown in Fig. 2; second, that of locking the legs 9 against movement about their pivots 8; third, that of bracing the table and the seats against lateral movement when the parts are unfolded. They also serve another function, to-wit, that of receiving and supporting the lower ends of a pair of longitudinally extending brace bars indicated at 14 and 15. The outer ends of the cross bars 12 are dovetailed, as shown at 16, to partly straddle the lower ends of the hangers and the legs 9. They thereby lock the legs and the hangers against spreading or against swinging about the hinge connections shown at 6, whether it be in an inward or outward direction. The longitudinally extending braces shown at 14 and 15 are pivotally connected, as at 17, and their outer ends are notched or off-set, as shown at 18, the lower ends engaging the cross bars 12, while the upper ends engage end strips 19 disposed at each end of the table. The table, when extended, is thereby rigidly braced against lateral and longitudinal strains by means of the cross bars 12 and the longitudinally extending bars 14 and 15.

In operation, when the table is extended, as shown in Figs. 1 and 2, if it is desired to fold the same into a compact unit, as shown in Figs. 3 and 4, it is only necessary to remove the longitudinal braces 14 and 15 and the cross bars 12. This permits the seats 7 to be swung upwardly in the direction of arrow *a* to assume a position parallel with the hangers. The legs 9 may then be swung about their pivotal connections 8 to assume positions parallel with the table top sections. It is then possible to fold the hangers containing the seats and the legs in under their respective table top sections about the hinges 6 and then to fold the table top sections together about their hinges 4 and 5, as shown in Fig. 3. A compact, flat bundle is

in this manner obtained, which may be stored in a minimum of space or readily handled during shipment, the only loose parts employed being the brace bars 14, 15 and 12.

5 These may be disposed on each side of the bundle, as shown in Fig. 5, and may be tied thereto by straps, ropes or the like, to prevent loss during transportation or shipment.

In erecting the table, when in a folded position, it is preferable to place the table on end, then to extend the legs and the top, then the seats, and insert the cross bars 12 which braces the legs and the table as a whole against lateral movement, and finally the 10 longitudinally extending braces 14 and 15; the swinging movement of the legs from a position parallel with the table top sections to the vertical position being limited by the stop members 10 secured on the lower ends 15 of the hangers.

From the foregoing description it can be seen that I have provided a combination table and seats which is simple and compact in construction, cheap to manufacture, and 25 which presents a compact unit for shipment, storage or transportation. Further, a table and seats which are so simply constructed and arranged that anyone may readily extend or fold the same whenever required.

30 While certain features of the present invention are more or less specific in construction, I wish it understood that various changes in the design and proportions may be resorted to within the scope of the appended claims; 35 similarly, that the materials and finish of the several parts employed may be such as the experience and judgment of the manufacturer may dictate and varying uses may demand.

40 Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. A combination folding table and seats comprising a pair of table top sections 45 hingedly connected, a pair of hangers hingedly secured to each table top section and foldable with relation to their respective sections, a seat section pivotally mounted between each pair of hangers, and legs supporting the table top sections and the seats; 50 said legs being pivotally attached to the upper ends of the hangers and adapted to be swung into parallelism with the table top.

2. A combination folding table and seats 55 comprising a pair of table top sections hingedly connected, a pair of hangers hingedly secured to each table top section and foldable with relation to their respective sections, a seat section pivotally mounted between 60 each pair of hangers, legs supporting the table top sections and the seats, cross bars connecting the legs and bracing the table and seats against lateral movement, and longitudinal extending diagonally disposed 65 bracing bars engaging the table top sections

and the cross bars to brace the table and seats against longitudinal movement.

3. A combination folding table and seats comprising a pair of table top sections, a pair of hinges disposed one at each end of said 70 sections and centrally connecting the same, a pair of hangers hingedly secured to each table top section and disposed at each end thereof, said hangers being foldable in under the table top sections, a seat pivotally 75 mounted between each pair of hangers, and a leg pivotally attached at its upper end to each hanger.

4. A combination folding table and seats comprising a pair of table top sections, a 80 pair of hinges disposed one at each end of said sections and centrally connecting the same, a pair of hangers hingedly secured to each table top section and disposed at each end thereof, said hangers being fold- 85 able in under the table top sections, a seat pivotally mounted between each pair of hangers, a leg pivotally attached at its upper end to each hanger, a stop member on each hanger, limiting the pivotal move- 90 ment of the legs in one direction, and other means for locking the legs against pivotal movement in the opposite direction.

5. A combination folding table and seats comprising a pair of table top sections, a 95 pair of hinges disposed one at each end of said table top sections hingedly connecting the same, a pair of hangers hingedly secured to the outer edge of each table top section and at the ends thereof, said hang- 100 ers being foldable in under their respective table top sections, a seat member pivotally secured between the lower ends of each pair of hangers, a leg member pivotally attached to the upper end of each hanger and adapted 105 to swing into alinement either with the hangers or with the table top sections, and a cross bar adapted to be supported by each pair of legs, said cross bars bracing the legs against movement and serving as sup- 110 ports for the seats.

6. A combination folding table and seats comprising a pair of table top sections, a 115 pair of hinges disposed one at each end of said table top sections hingedly connecting the same, a pair of hangers hingedly secured to the outer edge of each table top section and at the ends thereof, said hangers being foldable in under their respective table top 120 sections, a seat member pivotally secured between the lower ends of each pair of hangers, a leg member pivotally attached to the upper end of each hanger and adapted to swing into alinement either with the hangers or with the table top sections, a 125 stop member on the lower end of each hanger, adapted to limit the swinging movement of each leg, a projecting shoulder on each leg, a pair of cross bars, one for each pair of legs, adapted to be supported on 130

the shoulders, said cross bars securing the legs against pivotal movement and serving as additional supports for the seats.

7. A combination folding table and seats
 5 comprising a pair of table top sections, a pair of hinges disposed one at each end of said table top sections hingedly connecting the same, a pair of hangers hingedly secured to the outer edge of each table top
 10 section and at the ends thereof, said hangers being foldable in under their respective table top sections, a seat member pivotally secured between the lower ends of each pair of hangers, a leg member pivotally attached to the upper end of each hanger and adapted to swing into alinement either with the hangers or with the table top sections, a stop member on the lower end of each hanger, adapted to limit the swinging
 15 movement of each leg, a projecting shoulder on each leg, a pair of cross bars, one for each pair of legs, adapted to be supported on the shoulders, said cross bars securing the legs against pivotal movement and serving as additional supports for the seats, and
 20 a pair of longitudinally extending brace bars, said brace bars being engageable with the cross bars at their lower ends and with the table top sections at their upper ends.
 25 8. A combination folding table and seats comprising a pair of table top sections, a pair of hinges disposed one at each end of said table top sections hingedly connecting the same, a pair of hangers hingedly se-

cured to the outer edge of each table top section and at the ends thereof, said hangers being foldable in under their respective table top sections, a seat member pivotally secured between the lower ends of each pair of hangers, a leg member pivotally attached to the upper end of each hanger and adapted to swing into alinement either with the hangers or with the table top sections, a stop member on the lower end of each hanger, adapted to limit the swinging movement of each leg, a projecting shoulder on each leg, a pair of cross bars, one for each pair of legs, adapted to be supported on the shoulders, said cross bars securing the legs against pivotal movement and serving as additional supports for the seats, and a pair of longitudinally extending brace bars, said brace bars being engageable with the cross bars at their lower ends and with the table top sections at their upper ends, said longitudinally extending brace bars securing the cross bars upon the shelf-like projections formed on the legs and bracing the table and seats against longitudinal movement.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

GEO. R. STINE.

Witnesses.

C. C. CRIPPEN,
 W. C. WATSON.