Oct. 19, 1943. G. V. INGRAM 2,332,082

KNOCK DOWN TABLE

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Fig. 1.

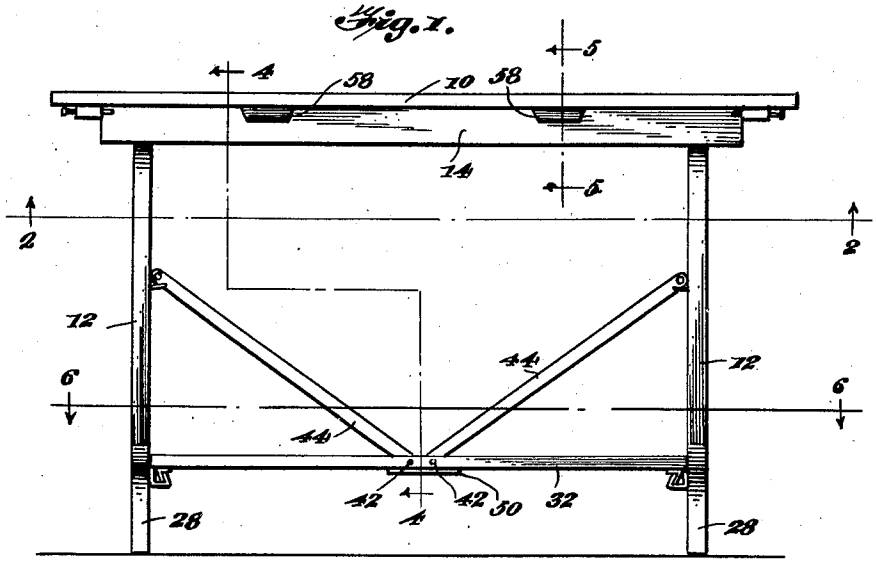


Fig. 2.

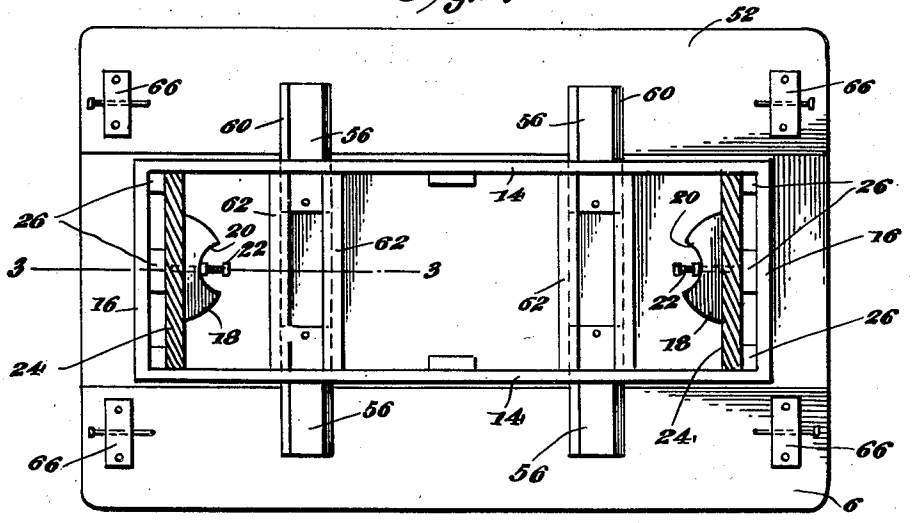
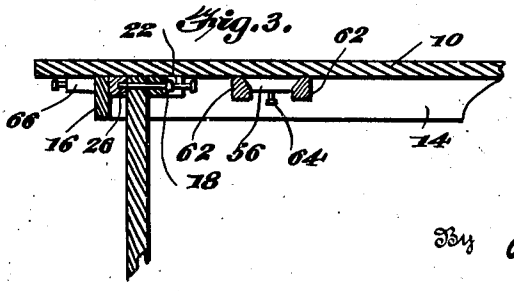


Fig. 3.



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Fig. 4.

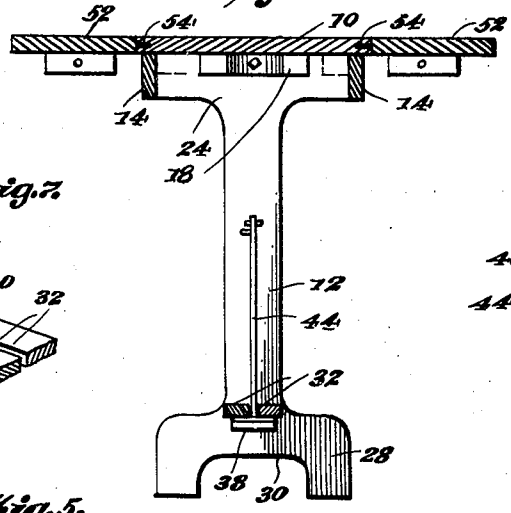


Fig. 7.

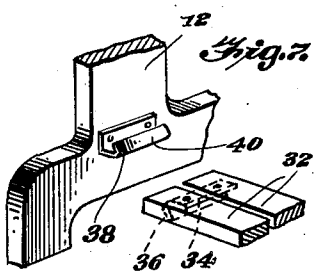


Fig. 8.

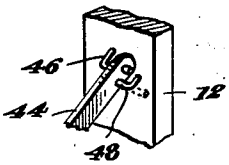


Fig. 5.

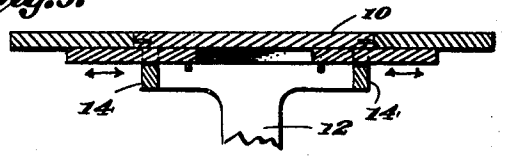


Fig. 6.

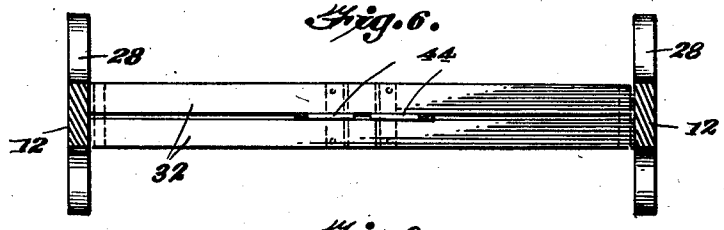


Fig. 9.

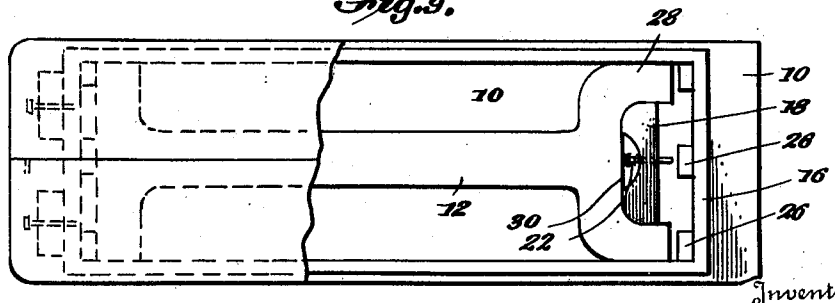


Fig. 10.

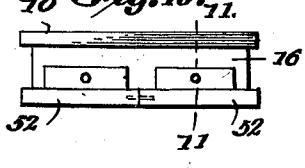
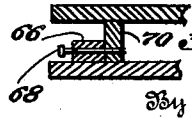


Fig. 11.



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KNOCKDOWN TABLE

George V. Ingram, Oakland, Calif.

Application November 19, 1941, Serial No. 419,800

5 Claims. (Cl. 311—90)

The present invention relates to improvements in knock-down tables.

The primary object of the invention, is to provide a knock-down table which may be used for outdoor picnics and camping trips and may be easily stored in a vehicle for the purpose of easy transportation and may be readily assembled for use without requiring the use of nails, screws or other fastening members.

A further object of the invention is to provide a knock-down table the top of which forms a case or housing for receiving the legs and braces thereof in interfitting relation when the table is collapsed so that the table may be easily stored during transporation and when out of use.

A still further object of the invention is to provide a knock-down table having a top, forming a casing and extension leaves adapted to provide a cover for the casing when the table is collapsed.

A still further object of the invention is to provide a detachable cross brace for the legs and angular braces for locking the cross brace in place and against accidental removal or displacement.

A still further object of the invention is to provide a knock-down table having a top area forming a casing in which is mounted stops against which the ends of the table legs may be nested when the table is in a collapsed position.

Other objects and advantages of the invention will become apparent during the course of the following description of the accompanying drawings wherein:

Figure 1 is a side elevational view of the table in its erected position.

Figure 2 is a horizontal cross sectional view taken on line 2—2 of Figure 1 looking in the direction of the arrows illustrating the supporting means for the extension leaves.

Figure 3 is a vertical cross sectional view taken on line 3—3 of Figure 2 looking in the direction of the arrows illustrating the manner in which the supporting legs are removably secured to the table top.

Figure 4 is a vertical cross sectional view taken on line 4—4 of Figure 1 looking in the direction of the arrows illustrating the arrangement of the extension leaves.

Figure 5 is a vertical cross sectional view taken on line 5—5 of Figure 1 looking in the direction of the arrows showing the manner in which the extension leaves are supported.

Figure 6 is a horizontal cross sectional view taken on line 6—6 of Figure 1 looking in the direction of the arrows illustrating the leg brace bar in detail.

Figure 7 is an exploded perspective view showing a portion of one of the legs and the manner in which the brace bar is connected therewith.

Figure 8 is a perspective view of the angular brace bar and the manner in which the same is connected to the table leg.

Figure 9 is a plan view of the table in a collapsed condition showing the legs in nested relation and the manner in which the leaf extensions are employed to form a cover.

Figure 10 is an end elevational view of the collapsed table and,

Figure 11 is a vertical cross sectional view taken on line 11—11 of Figure 10 showing the locking means for retaining the covers in place.

In the drawings, wherein for the purpose of illustrating the invention and wherein like reference characters will be employed to designate like parts throughout the same, the reference numeral 10 will be employed to generally designate a table top supported by opposed legs 12 when the table is in its assembled position as shown in Figures 1 to 6 inclusive.

The table top 10 is provided with parallel side rails 14 connected at the ends by transverse rails 16 thereby forming a case-like structure in which the legs are stored when the table is knocked down.

Mounted on the underside of the table top 10 at each end thereof are semi-circular blocks 18 having cutaway portions 20 for accommodating screws 22 which are adapted to pass through the blocks 18 for engaging within openings formed in the upper transverse extension 24 of the legs 12. Spaced blocks 26 are interposed between the transverse end rails 16 and the upper portion of the legs 24 so that the legs 12 will be securely clamped in position when the table is assembled. The lower end of each leg 12 is provided with oppositely extending foot portions 28 cutaway as at 30 to assist in compactly storing the legs when knocked down and so that the blocks 18 will be received in the cutaway portions 30 as shown clearly in Figure 9.

A lower cross bar for connecting the legs 12 is formed by means of a pair of parallel rails 32 connected at the ends by transverse spacing plates 34 having downwardly extending hook portions 36 for being received in a correspondingly shaped plate 38 having a hook portion 40 secured to the lower end of the legs 12. In this manner, the lower cross rail can be easily detached from

the legs and may be stored in the casing similar to the legs 12.

Pivotally mounted between the cross rails 32 as at 42 are angle brace bars 44, the upper ends of which are provided with openings for being received on screw hooks 46 attached to the leg 12. A locking pin 48 may be turned so as to engage the upper end of the brace bar as clearly shown in Figure 8 thus preventing displacement of the brace bars 44 when the table is in an erected position. Adjacent the pivot points 42 of the brace bars 44 is a transverse plate 50, further connecting the rails 32 in addition to the end plates 34.

The table top 10 is provided with opposite wing extensions 52 connected to the table top for easy removal by means of pins 54 carried thereby adapted to enter openings in the edges of the table top. Each table wing extension 52 is further supported from the table top by sliding leaf supports 56 projected through openings 58 in the side rails 14 and each leaf support 56 has its longitudinal edges beveled for being slidably received between parallel slide guide strips 62 anchored to the underside of the table top 10. Operating buttons 64 are secured to the leaf wing supports 56 so that they may be easily manipulated when the table is assembled.

Each table wing extension 52 is provided at its opposite ends with blocks 66 carrying slide locking pins 68 adapted to enter openings 70 in the transverse end rails 16 when the table is in its knock down position and the legs and brace bars nested within the table top as shown in Figures 9, 10 and 11.

When the table is knocked down, the legs 12 are nested in the table top in opposed relation so that the cutout portion 30 in each leg will be received on the opposed blocks 18 to prevent end to end play and eliminate the parts of the table from vibrating when packed in the table top casing section.

It is to be understood, that the form of the invention herewith shown and described is to be taken as a preferred embodiment of the same and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described the invention, what I claim is:

1. A collapsible table comprising a casing top section, wing extensions adapted to be removably secured to the table casing section when in assembled relation and forming a cover for the casing section when knocked down, means for securing the wing extensions to the top, means for securing the wing extensions to the casing to form the cover, and legs removably secured to the table top adapted to be nested in the casing section.

2. A collapsible table comprising a casing and top section, wing extensions on the top section adapted to be employed as a cover for the casing and top section when the table is knocked down, means for removably securing the wing extensions to the casing, means for securing the wing extensions to the top, a pair of detachable legs secured in a removable fashion to the underside of the casing section, detachable supporting legs for each end of the table adapted to be nested in the casing section and brace bars connecting the legs for holding the table in assembled position.

3. A collapsible table comprising a central casing top section, wing extensions, means for removably securing the wing extensions to the casing to form a cover, means for removably securing the wing extensions to the sides of the top section, a pair of supporting legs for the table having cutaway portions in one end thereof, means for detachably securing the legs to the casing top section, blocks secured to the underside of the casing section for being received in the cutaway portions of the supporting legs when the table is collapsed and the legs are nested in the casing section.

4. A collapsible table comprising a central top section, side and end rails formed on the top section providing a casing open at the underside, wing extensions for the table top adapted to form a cover for the casing when removed from the top, means for securing the wing extensions to the table top, means for securing the wing extensions to the casing and a pair of supporting legs for the central top section removably secured to the underside thereof.

5. A collapsible table comprising a table top, side and end rails secured to the table top forming a housing, supporting legs removably secured to the table top adapted to be stored in the housing in nested relation when the table is knocked down, wing extensions, means for removably securing the wing extensions to the housing to form a cover, and means for removably securing the wing extensions to the table top.

GEORGE V. INGRAM.