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KNOCK-DOWN TABLE

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Fig. 2.

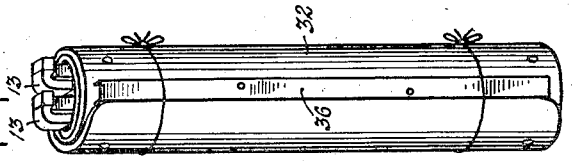
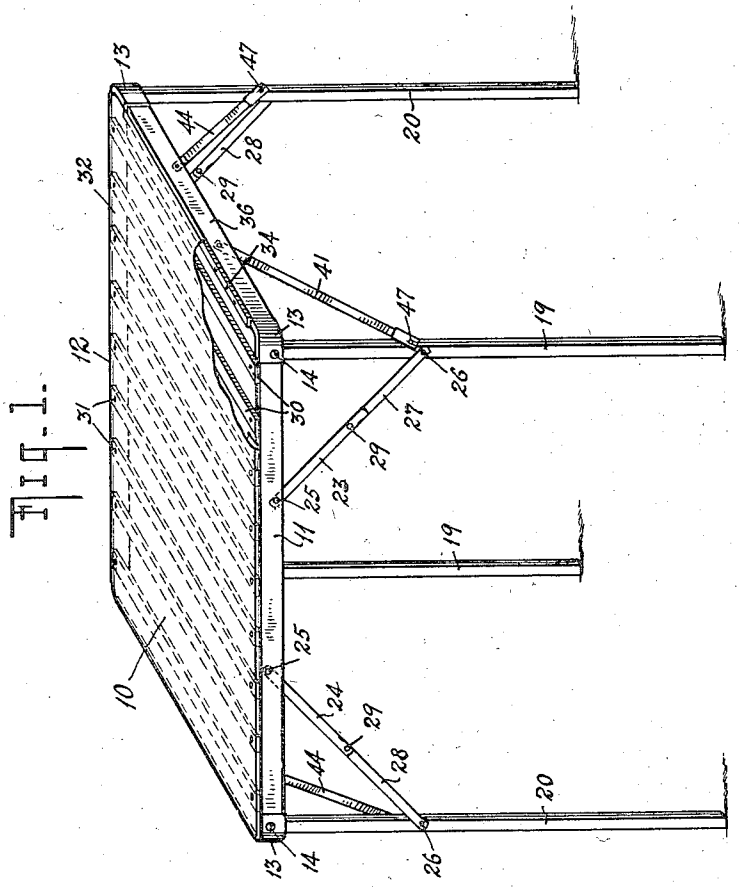


Fig. 1.



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KNOCK-DOWN TABLE

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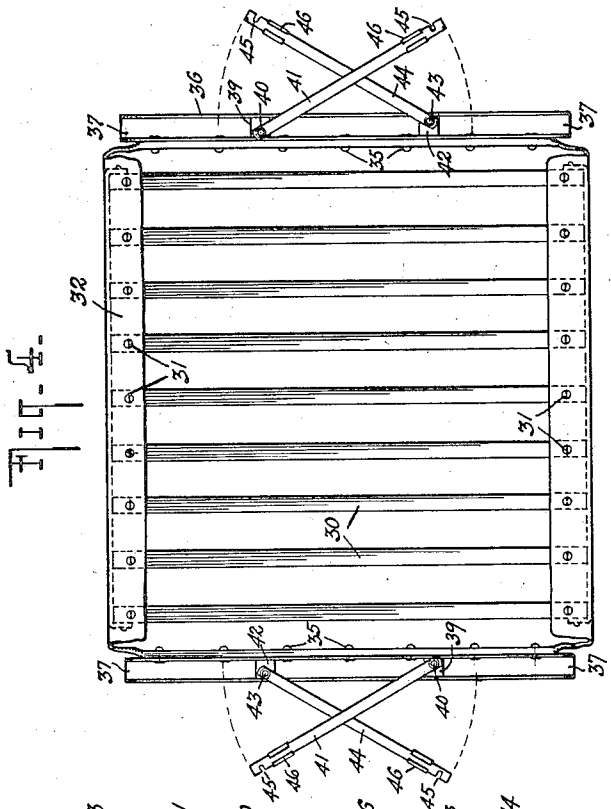


FIG. 4.

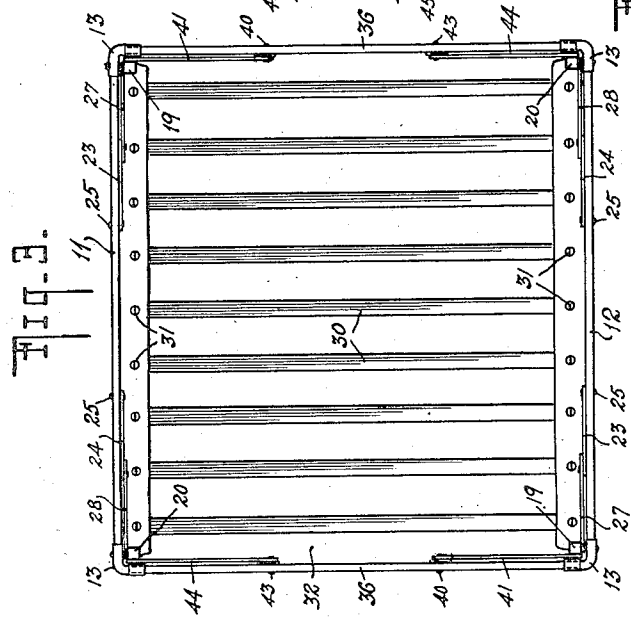


FIG. 3.

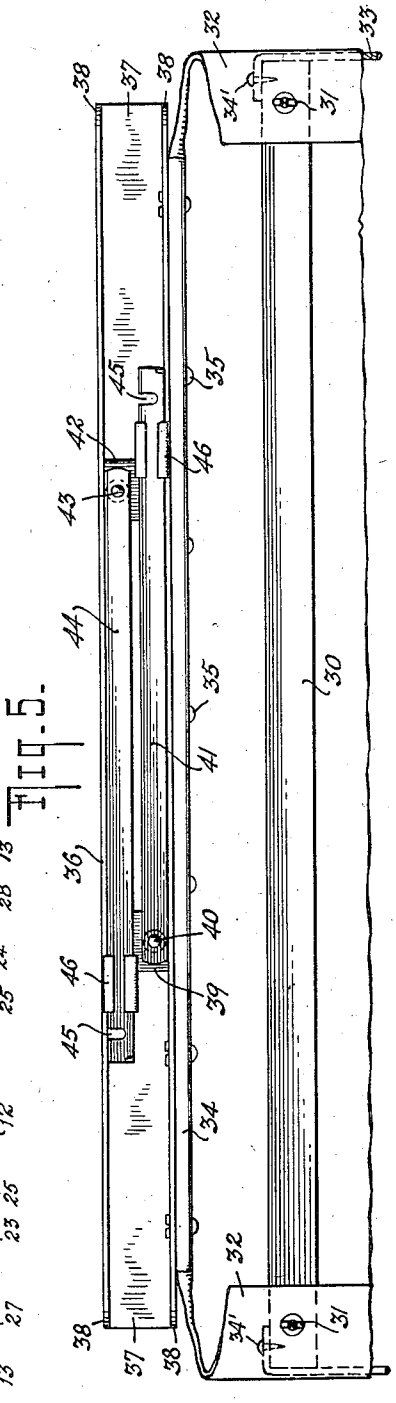


FIG. 5.

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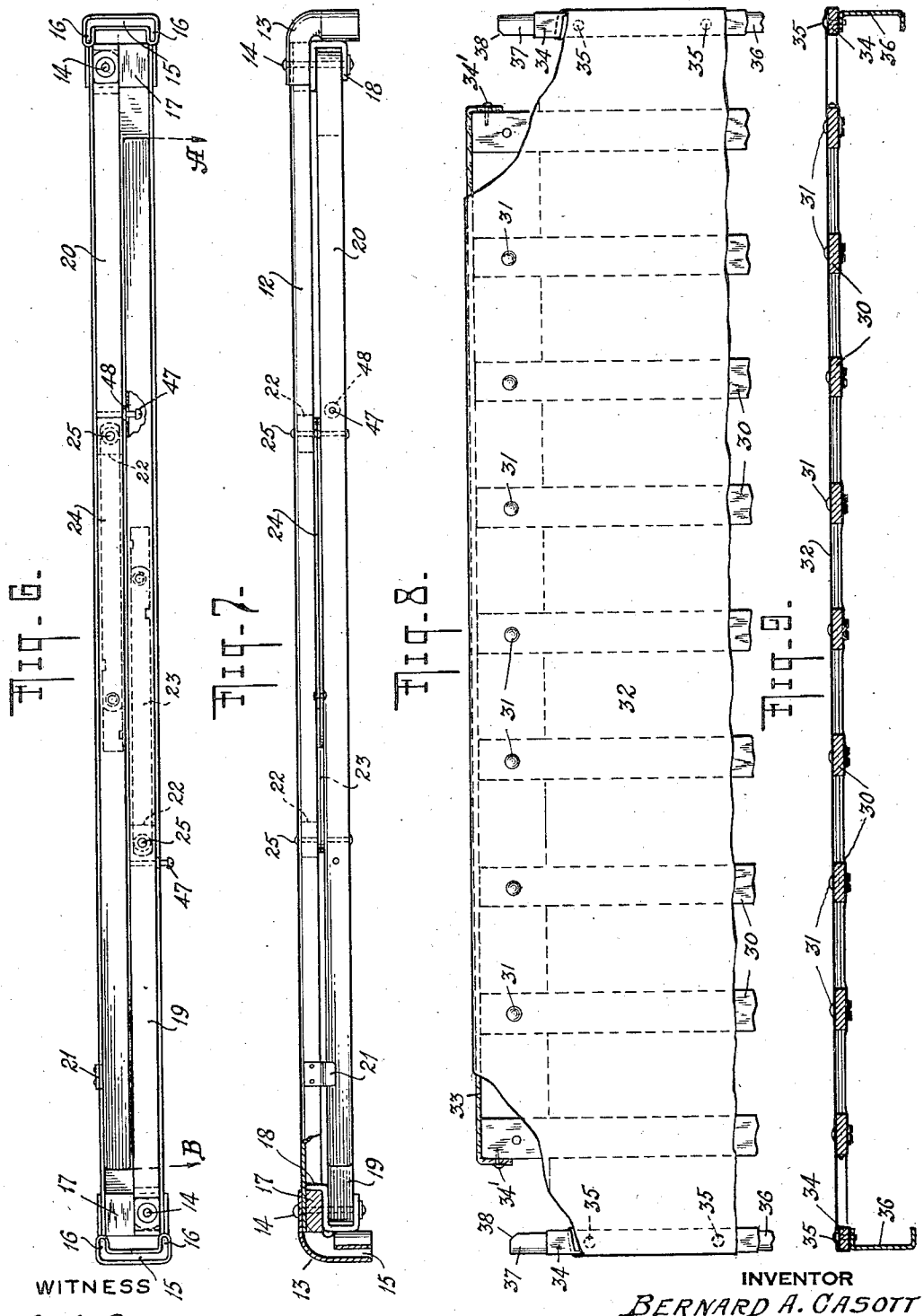
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KNOCK-DOWN TABLE

Filed June 1, 1934 3 Sheets-Sheet 3



WITNESS
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UNITED STATES PATENT OFFICE

2,023,870

KNOCK-DOWN TABLE

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Application June 1, 1934, Serial No. 728,477

5 Claims. (Cl. 311—78)

My invention relates to a knock-down table which may be separated into its component elements for the purpose of packing such elements into a compact unit for facility of transportation and to be reassembled at the place of its intended use with a minimum of effort and mechanical ingenuity required of the user.

A particular object of the invention is to provide a table of the knock-down type with component elements of simple construction, light in weight and of low cost to manufacture. A more particular object of the invention is to provide a table having two frame elements to which are pivotally secured the leg portions of the table and to which frame elements the member designed to serve as the top of the table when the latter is erected may be securely and easily fastened.

A still further object of the invention is to provide a knock-down table with a top having a plurality of slats supporting a flexible material which is to comprise the table surface and to have such top structure positioned upon the frame construction rigidly when the table is erected.

A novel feature of my invention consists in the provision of a novel means of securing the table top structure to the frame elements of the table to each of which are pivotally secured two legs of the table. A further novel feature of my invention consists in providing each of the two side frames of the table with a pair of leg members pivotally secured thereto and which may be folded into position so as to be contained within the peripheral confines of the side frame so that the entire table structure, with the two side frames collapsed and the top structure in rolled-up condition may form a compact package to facilitate the transportation of the structure.

In the accompanying drawings illustrating a specific embodiment of my invention, Fig. 1 is a perspective view of my novel knock-down table with a portion of the top covering broken away; Fig. 2 shows the entire structure rolled into a compact package for transportation; Fig. 3 is a bottom view of the assembled table structure; Fig. 4 is a bottom plan view of the table top showing the bracing elements thereof which are adapted to secure the top structure in rigid position to the frame elements; Fig. 5 is a reverse plan view of one side of the top structure showing one of the channel bars secured thereto and adapted to cooperatively engage the side frames of the table; Fig. 6 is a bottom view of one of the frame elements with the two table legs pivoted thereon folded against the same; Fig. 7 is a side view, partly broken away, of one of the frame elements; Fig. 8 is a fragmentary plan view of the top structure with portions thereof broken away so as to show the means for effecting the cooperative engagement of said top structure with the side frame elements of the table; and Fig. 9 is a side view of the top structure in section.

Referring more particularly to the drawings, in which similar reference characters identify similar parts in the several views, 10 designates the table as erected and ready for use and including a pair of frame elements 11 illustrated in enlarged detail in Figs. 6 and 7. Each of such frame elements comprises a channelled bar 12, preferably made of sheet metal, at each end of which is secured an elbow 13, one leg of which straddles the frame element 12, being secured thereto by rivet 14, the other leg of such elbow having a channelled configuration such as clearly illustrated in Fig. 6, the channel being U-shaped, having a main slot 15 and slots 16—16 disposed at right angles to said main slot and forming continuations thereof. Within the channel of the side frame element 12, contiguous with the end thereof upon which is mounted one of the elbows 13 is a block 17, with two sides of which a bent strip 18 contacts, the free end of such strip being reversed to form a U with one of the portions thereof in contact with the block 17, so as to have pass therethrough the rivet 14. Pivotally secured upon the rivet 14 is a preferably hollow metal bar 19 which, when pivoted about the rivet 14, serves as one of the legs of the table.

The other end of the frame element is similarly constructed, having leg 20 pivoted thereon. As will be noted from Fig. 6, the rivets 14 and therefore the pivotal points of the two legs 19 and 20 are offset from each other so that when such legs are folded upon the frame section they will occupy positions within the confines thereof contiguous to each other so that in the course of erecting the table first the leg portion 19 may be turned about the pivot in the direction of the arrow A and after such leg has been brought to a position at right angles to the frame element, the leg 20 may be pivoted about its pivot point, in the direction of the arrow B, until such leg portion is at right angles to the frame element.

Provided upon the side of the frame section is a plate 21 against which the leg 20 is adapted to abut and which serves to retain such leg within the confines of the peripheral area of such frame section.

Secured to blocks 22—22 within the channels of the frame elements, one of such blocks being posi-

tioned in the lower half of such channel and the other of said blocks in the upper half of such channel, are brace elements **23**, **24** pivoted upon the blocks **22** by means of rivets **25**.

Secured to the legs **19** and **20**, at pivots **26**, are brace elements **27** and **28** connected to the brace elements **23** and **24** respectively by breakable joints **29**, brace elements **23** and **27**, and **24** and **28** respectively constituting the usual bracing means for retaining the table in rigid position when the legs **19** and **20** are in their extended positions at right angles to the side frame sections of the table.

The top structure for my novel knock-down table comprises a plurality of slats **30**, preferably made of wood and disposed in parallel relation to each other, to which is secured by any suitable fastening means **31** a flexible surface material **32** such as leather or cloth. For supporting the edges of the surface material, I find it advisable to connect the end surfaces of the slats **30** with a cord **33** secured to the two end slats by tacks **34'**. The edges of the flexible material parallel to the slats **30** are turned over so as to secure within such ends a bar **34**, the material being secured to such bar by any suitable fastening means **35**, such fastening means also serving to secure the bar **34** to a channel strip **36** having its ends **37** extending beyond the limits of the bar **34**. Preferably the ends **37** are chamfered as shown at **38** in Fig. 8.

Within the channelled bar **36** and at approximately one-third of the length thereof, is positioned a block **39** upon the portions of which disposed in the lower half of the channel (Fig. 5) is pivotally secured by means of rivet **40** the brace element **41**. A similar block **42** is positioned within the channel at a point about two-thirds of its length upon the portion of which disposed in the upper half of the channel is pivotally mounted by means of rivet **43** the brace element **44**. Each of the brace elements **41** and **44** is provided near its end with a slot **45** and a sleeve **46** adapted to ride over the brace element so as to override the slot **45** when the latter has engaged pin **47** extending from the leg of the table with which the brace element is adapted to cooperate. As shown in Fig. 6, a slot **48** is provided in the side of the leg **19** to accommodate the pin **47** when such leg is in position upon the frame element **12**.

As will be noted from an examination of Fig. 4, the structure just described is also provided upon the other side of the table top.

In assembling my novel table into the erected condition thereof, one of the side frames **11**, **12** is brought to the horizontal position, the legs **19** and **20** being pivoted therefrom until they extend approximately in vertical position, the bracing elements **23**, **27** and **24**, **28** being brought to their lineal positions so as to secure the legs rigidly in a position in which they depend from such side frame. The table top is unrolled from its condition illustrated in Fig. 2 and one of the channel bars **36** thereof is attached to the side frame by bringing the chamfered end thereof into telescopic relationship with the elbow **13** of the side frame, the chamfered end of the bar **36** being inserted into the slot **15** of the elbow. The other channel bar **36** of the top structure is similarly brought into cooperative engagement with the elbow **13** on the other end of the frame element, when the second frame element is erected and brought into approximate relationship with the top section so that the remaining ends of the bars **36** may be made to telescopically engage the elbows **13** on said second frame element.

For completing the rigid mounting of the table, the brace members **41**, **44** are swung outwardly from the channel elements **36** of the top section, the ends thereof being made to engage the legs **19** and **20** by means of the slots **45** cooperating with the pins **47** extending from the legs. In order to secure such bracing members, the sleeves **46** are slid along such brace members until they cover the slots **45** with the pins extending from the legs passing through the slotted openings within such sleeves.

The table when thus erected is rigid and has a smooth surface which, however, is sufficiently rigid to retain any object placed upon the table top and is sufficiently resilient to provide the desirable surface for playing a card game for which my novel table is particularly suited.

In disassembling the table the operations hereinabove described for erecting the same are carried out in reverse order, the table top being capable of being rolled up into the condition illustrated in Fig. 2 with the two frame elements contained within the rolled up top. The entire structure may be thus easily fastened together by any suitable means such as pieces of cord, and may thus be shipped or transported in an automobile or similar conveyance.

I claim:

1. In a knock-down table, a pair of frame sections each having pivotally secured thereto two of the leg members of the table and having at the ends thereof hollow elbow elements, a plurality of slats having secured thereto a sheet of flexible material to constitute the table top, a pair of channelled bars disposed along and secured to the side edges of said sheet, the ends of said channelled bars being adapted to be telescopically secured within the hollow elbow elements of the side arms when the table is erected, the table, comprising all of its elements, being adapted to be rolled into a compact package of substantially circular section, formed by the rolling up of the table top about the frame sections.

2. In a knock-down table a pair of frame sections each having pivotally secured thereto two of the leg members of the table so as to have such leg members disposed entirely within the peripheral edges of said frame section when said leg members are pivoted so as to lie against said frame section, each of said frame sections having at the ends thereof hollow elbow elements, a plurality of slats having secured thereto a sheet of flexible material to constitute the table top, a pair of channelled bars disposed along and secured to the side edges of said sheet, the ends of said channelled bars being adapted to be telescopically secured within the hollow elbow elements of the side arms when the table is erected, the table, comprising all of its elements, being adapted to be rolled into a compact package of substantially circular section, formed by the rolling up of the table top about the frame sections.

3. In a knock-down table, a pair of frame sections each having pivotally secured thereto two of the leg members of the table so as to have such leg members disposed entirely within the peripheral edges of said frame section when said leg members are pivoted so as to lie against said frame section, each of said frame sections having at the ends thereof hollow elbow elements, and a top structure for the table comprising a plurality of slats having secured thereto a sheet of flexible material, a pair of bars dis-

posed along the side edges of said sheet and parallel to said slats, and a pair of channelled bars secured to said bars, the ends of said channelled bars being adapted to be telescopically secured within the hollow elbow elements of the frame sections when the table is erected, the table, comprising all of its elements, being adapted to be rolled into a compact package of substantially circular section, formed by the rolling up of the table top about the frame sections.

4. In a knock-down table, a pair of frame sections each having pivotally secured thereto two of the leg members of the table and having at the ends thereof hollow elbow elements, a plurality of slats having secured thereto a sheet of flexible material to constitute the table top, a pair of channelled bars disposed along and secured to the side edges of said sheet, the ends of said channelled bars being adapted to be telescopically secured within the hollow elbow elements of the side arms when the table is erected, and a pair of bracing elements pivotally secured upon each of the channelled bars and adapted to cooperate with the leg portions depending from each of the frame sections for maintaining said leg portions rigidly in perpendicular relationship to said channelled bars, the table, comprising all of its elements, being adapted to be rolled into a compact package of substantially circular section, formed by the rolling up of the table top about the frame sections.

5. In a knock-down table, a pair of frame sections each having pivotally secured thereto two of the leg members of the table and having at the ends thereof hollow elbow elements, and a top structure for the table comprising a plurality of slats having secured thereto a sheet of flexible material, a pair of bars disposed along the side edges of said sheet and parallel to said slats, and a pair of channelled bars secured to said bars, the ends of said channelled bars being adapted to be telescopically secured within the hollow elbow elements of the frame sections when the table is erected, and a pair of bracing elements each having an intermediate breakable joint and pivotally secured at one end to the frame section and at the other to a leg pivotally secured thereto, the table, comprising all of its elements, being adapted to be rolled into a compact package of substantially circular section, formed by the rolling up of the table top about the frame sections.

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