Aug. 15, 1950 A. A. STELZER 2,518,955

KNOCKDOWN CHAIR

Filed June 19, 1947

Fig. 1.

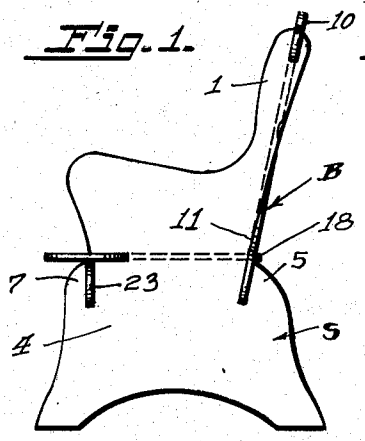


Fig. 2.

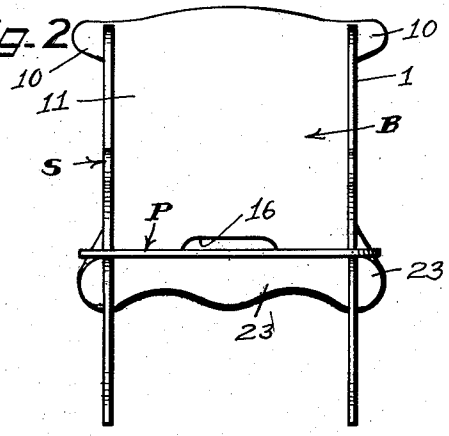


Fig. 3.

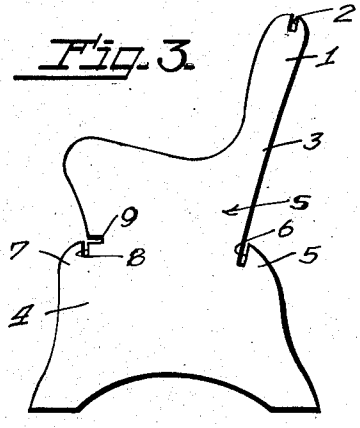


Fig. 4.

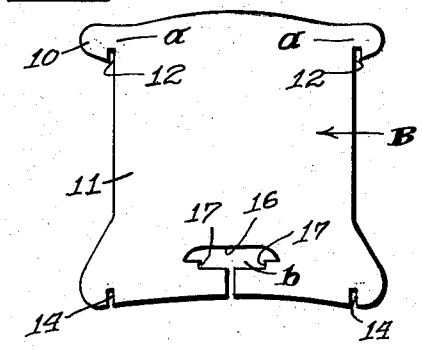


Fig. 7.

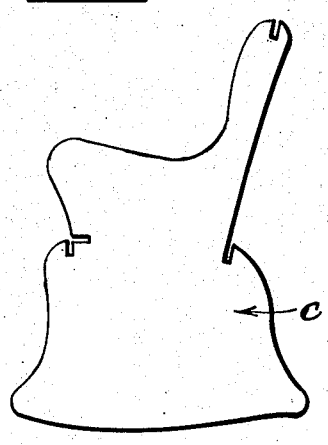


Fig. 6.

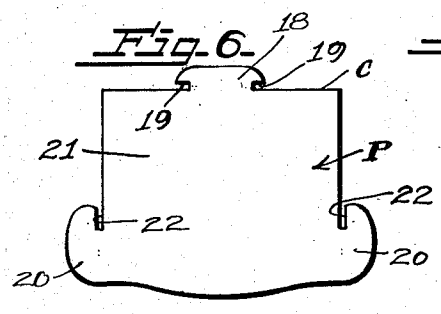
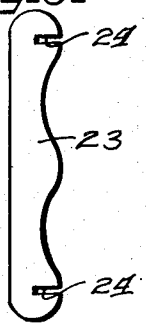


Fig. 5.



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KNOCKDOWN CHAIR

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4 Claims. (Cl. 155—196)

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This invention relates to collapsible furniture and it is primarily an object of the invention to provide a plurality of panels or units so constructed as to permit the same to be readily interlocked to maintain the same in desired assembled relation and with equal facility permitting the same, if desired, to be disassembled.

It is also an object of the invention to provide an article of furniture including a plurality of panels or units each of which being provided thereon at desired locations means to enable the same to be readily and conveniently united with other unit or units.

A more specified object of the invention is to provide a chair which can easily be converted from a rocker to a non-rocker and vice versa.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved knockdown furniture whereby certain important advantages are attained, as will hereinafter be more fully set forth.

In order that my invention may be better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein:

Figure 1 is a view in side elevation of a structure embodying the invention;

Figure 2 is a view in front elevation of the structure illustrated in Figure 1;

Figure 3 is a view in plan of a side panel or unit as herein embodied;

Figure 4 is a view in plan of a rear or back unit or panel as herein employed;

Figure 5 is a view in plan of a brace member of unit as herein comprised;

Figure 6 is a view in plan of a bottom unit or panel as herein embodied; and

Figure 7 is a view in plan of a side member of a rocker type.

As illustrated in the accompanying drawings, S denotes side panels or units of substantially duplicate construction and each of which comprises, to one side and at what may be termed its upper end, an upwardly disposed elongated arm or post 1 provided in its top or free end portion with an upwardly facing open notch or recess 2. The inner or outer edge face 3 of the post or arm 1 is substantially straight and said straight edge face is continued a predetermined distance inwardly of the body portion 4 of the panel to an outstanding shoulder 5 or the like rearwardly directed. The lower or inner end of the edge face 3 is continued within an upwardly facing open notch or recess 6 in said shoulder 5 immediately adjacent to the body portion 4.

The front edge face of each of the panels S at a point substantially transversely aligned with the shoulder 5, is formed to provide a second upwardly facing shoulder 7 provided in its inner

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portion with an upwardly facing open notch or recess 8, and immediately adjacent to the top of this recess or notch 8 of the body 4, the panel is provided with the inwardly disposed short open notch or recess 9 facing outwardly. This notch or recess 9 is at substantially right angles to the longitudinal axis of the panel S.

In Figure 4 of the drawing is illustrated a back panel or unit B of required dimensions which is provided at its upper or top extremity with the laterally and oppositely directed short arms 10, the under marginal portions of which immediately adjacent to the body 11 of the panel B, are provided with the downwardly opening notches or recesses 12. The notches or recesses 12 permit the arms 10 to interlock with the upper or top portions of the arms or posts 3. The neck portions *a* of the arms 10 are readily received within the notches or recesses 2 at the upper or outer ends of the arms or posts 1.

The lower marginal portion of the panel B adjacent its opposite sides is provided with the downwardly opening notches or recesses 14 which permit interlocking with the rear portions of the panels S. It is believed to be apparent that the parts of the unit B immediately above the notches or recesses 14 will be received within the recesses or notches 6.

It is also believed to be readily apparent that the panel or unit B can be readily placed in desired assembly with the respect to the panels or units S by substantially straight downward movement and removed by corresponding movement in the opposite direction.

The lower portion of the back panel or unit B substantially at its center is provided with a long transversely directed opening 16 the lower edge *b* of which is cut out to provide the opposed inwardly facing shoulders 17.

An outstanding elongated flat lug 18 carried by the central rear portion of the bottom panel or unit P is readily insertible through the upper portion of the opening 16 but is of a length in excess of the distance between the shoulders 17. The end portions of this lug 18 immediately adjacent to the rear edge *c* of the panel or unit P are provided with the outwardly facing notches or recesses 19 which readily receive the portions of the panel B immediately to the rear of the shoulder 17 as the base or bottom P is moved downwardly within the slot 16.

The panel P, at the forward portion thereof is provided with the oppositely disposed and laterally directed members or extension plates 20 coplaner with the body 21 of the panel or unit P and the rear portions of these members or plates 20 immediately adjacent to the side edges of the body 21 of the panel or unit P are provided with the rearwardly disposed open notches or recesses 22 which receive the body portions 4 of the side

panels P immediately to the rear of the notches or recesses 9 while, of course, the portions of the members or plates 20 immediately in advance of the notches or recesses 22 are received within such notches or recesses 9.

It is also believed to be apparent that the bottom panel or unit P may be readily placed in assembly by substantially a direct straight movement, and removed in the same manner. In the application of this panel or unit P, however, the rear portion must be slightly elevated to allow the lug 18 to pass through the upper portion of the slot 16.

To further support the bottom panel or unit P, a cross member or unit 23 is provided which is substantially flat and relatively narrow. This member or unit 23, when applied, has close contact with the under surface of the applied panel or unit P and is of a length to extend beyond the applied side panels S so that portions of the side panels immediately below the notches or recesses 8 can be received in the upwardly opening notches or recesses 24 formed in the edge of the support member 23 at the opposite end portion of the member. Obviously when this unit or member 23 is applied, the portions of the unit or member 23 immediately above the notches or recesses 24 will be received within the notches or recesses 8 of the side panels S.

As illustrated, particularly in Figures 1 and 3, the side panels S are of a type to provide for a chair of a non-rocker type. In Figure 7 is illustrated a side panel C substantially the same as in Figures 1 and 3 except that the bottom or lower edge thereof is arcuate for the production of a chair of a rocker type. It is believed obvious that the panels S and C may readily be selectively used in accordance with the desire to have a chair of either type.

In view of the foregoing it is believed to be apparent that a structure is provided comprising a plurality of panels or units which can be readily assembled as desired and knocked down with equal facility. Furthermore, it is believed to be apparent that the structure is one which eliminates the necessity of using nails or other mechanical means and in fact avoids the necessity of using any binder.

I claim:

1. An assembly of the class described, comprising two transversely spaced side units, means for maintaining the same in such spaced relation, comprising a third unit between and operatively engaged with the first named units, said third unit being provided with an elongated opening, one marginal portion of said opening being provided with inwardly facing spaced shoulders, a fourth unit between and operatively engaged with the first named units and having an outstanding lug insertable through the opening of the third unit above the shoulders thereof, said lug of the fourth unit in its opposite end portions being provided with outwardly opening recesses to permit the lug to be received between the shoulders.

2. An article of furniture comprising two side units each having a rear edge provided with upwardly and rearwardly directed narrow open recesses lying in the same plane, said recesses being vertically spaced, a back unit having opposite side edges each provided with spaced recesses opening in the same direction and in a direction opposite to the recesses of the side units, the recesses of

the side units and of the back unit permitting the back unit and side units to interlock.

3. An article of furniture comprising side units provided in their rear portions with open recesses disposed in the same direction, said recesses being at spaced points along the units and at the rear thereof, a back unit having at its opposite side portions open recesses opening in the same direction and in a direction opposite to the recesses of the side units, the recesses of the side units and of the back unit permitting the back unit and side units to interlock, the lower portion of the back unit being provided in its central part with an elongated opening, a bottom unit, an outstanding lug carried by the rear portion of the bottom unit, the lower portion of the opening of the back panel being provided with the inwardly facing spaced shoulders, the lug of the bottom unit being of a length greater than the distance between the shoulders of the back panel, the portion of the opening above the shoulders being of a length to permit the lug of the bottom unit to be inserted therethrough, the lug of the bottom unit being provided in its end portion with outwardly opening slots to permit the lug to be received between the shoulders within the opening of the back unit, the side units at the front portions thereof being provided with upwardly facing open notches, a supporting cross unit provided in its end portions with open notches, said open notches of the supporting unit allowing said supporting unit in co-action with the notches of the side units to interlock with the side units, said supporting unit when in its position providing a support for the bottom unit.

4. A chair construction of the character set forth comprising two upright side units each having an upwardly extending post and a lower body portion, the body portion having forwardly and rearwardly projecting shoulders, each rear shoulder and the top end of the post having an upwardly opening slot, a flat back unit adapted to position between the opposing faces of said posts, said back unit having a laterally projecting arm at the top of each side edge, each arm having a downwardly opening notch for interlocking connection with the notch in the top of the adjacent post, said back portion having a laterally projecting part at the bottom of each side edge adapted to extend across the top of a rearwardly projecting shoulder for engagement in the shoulder notch, a support unit disposed across between the forwardly projecting shoulders and having a downwardly directed edge engaged in the slot of each adjacent shoulder, a seat unit disposed between the side units, connecting means between the rear of the seat unit and the back unit, and connecting means between the seat unit and each side unit adjacent to the front shoulder of the latter.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
490,288	Hubbard	Jan. 24, 1893
1,239,279	Loeblein	Sept. 4, 1917
1,735,851	Burton	Nov. 19, 1929
1,747,900	Jenny	Feb. 18, 1930