

June 2, 1931.

W. J. BAUER

1,808,201

COLLAPSIBLE ARM CHAIR

Filed Oct. 5, 1928

2 Sheets-Sheet 1

Fig. 3.

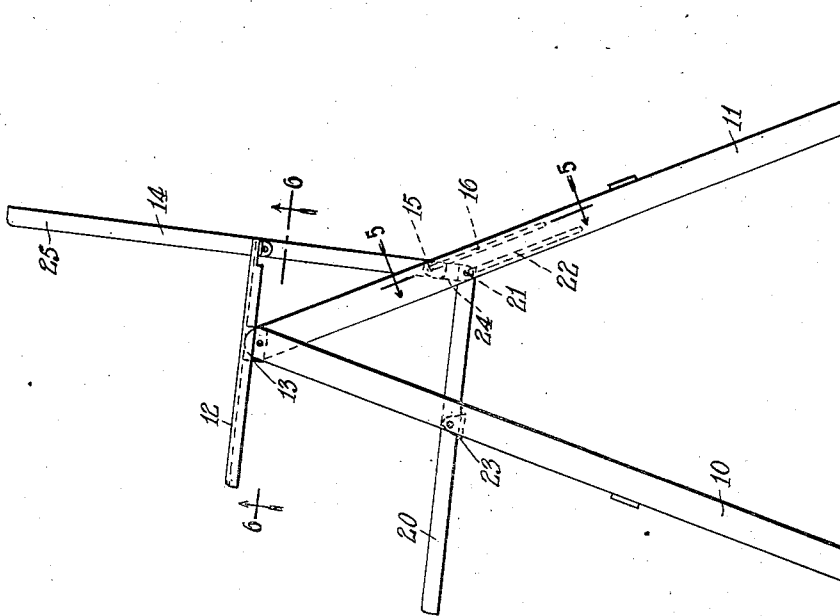


Fig. 2.

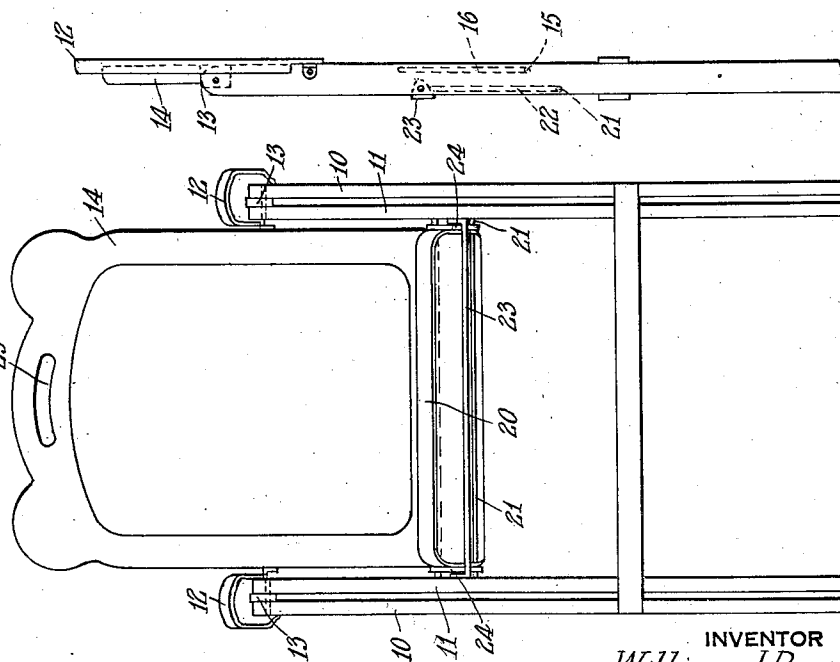
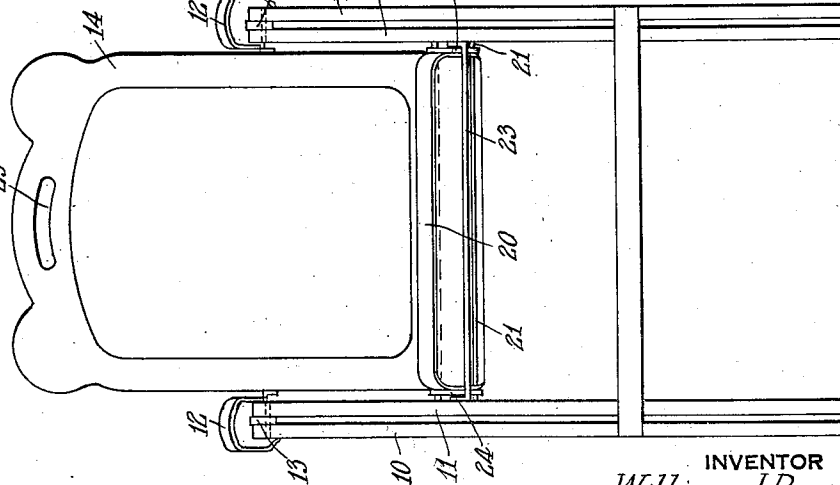


Fig. 1.



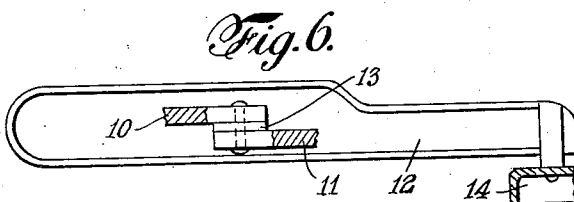
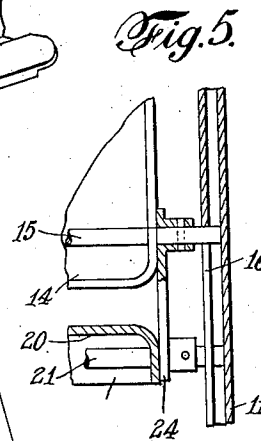
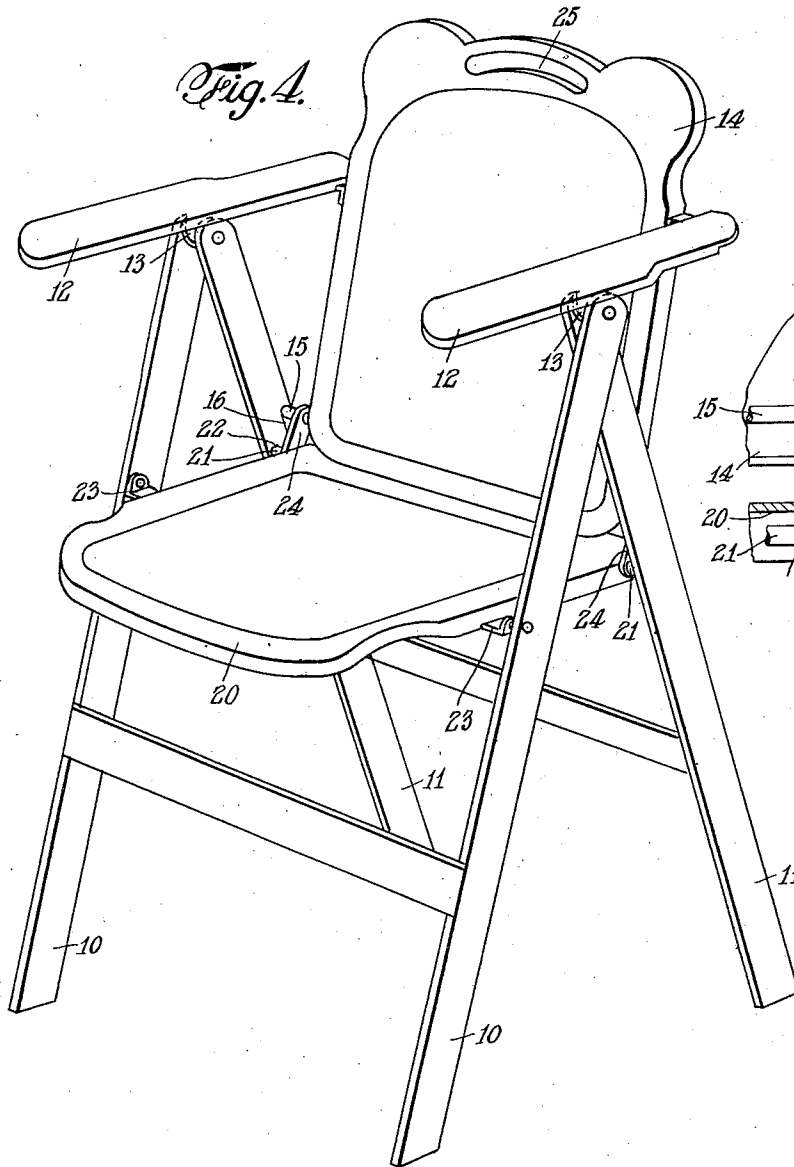
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2 Sheets-Sheet 2



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## UNITED STATES PATENT OFFICE

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## COLLAPSIBLE ARM CHAIR

Application filed October 5, 1928. Serial No. 310,520.

The invention relates to chairs, more particularly of the automatic folding or collapsible type which may be compactly collapsed, when desired, for storage or shipment. The invention has for its object to afford a collapsible chair which is provided with arms on either side, the said chairs being so constructed that these arms will fold substantially over members constituting the front and rear legs of the chair, the latter being designed to fit within the former, while the seat and back members of the said chair fit within the said pair of rear legs when folded.

In carrying out the invention, respective pairs of front and rear legs are pivotally secured to each other at their upper ends and to which upper ends are also secured the arm members of the chair. A seat member is pivotally connected to the front pair of legs beneath said arm members and intermediate its outer and inner ends, the seat at the latter part being pivotally and slidably connected to the rear pair of legs to which is also pivotally and slidably connected the lower part of the back member of the chair. This back member extends upwardly from the inner or rear part of the seat member and is pivotally connected to the inner or rear ends of the respective arm members. Moreover, link members are included between the inner end of the seat member and the lower end of the back member to connect the same, while the connection of the two members with the respective leg members is such that these inner and lower ends may move longitudinally thereof but in different planes.

The nature of the invention, however, will best be understood when described in connection with the accompanying drawings, in which:

Fig. 1 is a front elevation of the novel arm chair.

Fig. 2 is a side elevation thereof in collapsed or folded condition.

Fig. 3 is a side elevation of the chair in open or extended condition.

Fig. 4 is a perspective view of the chair in open condition.

Fig. 5 is a fragmentary enlarged detail vertical section taken on the line 5—5, Fig.

3 of the drawings, and looking in the direction of the arrows.

Fig. 6 is a fragmentary enlarged detail horizontal section, taken on the line 6—6, Fig. 3, and looking in the direction of the arrows.

Referring to the drawings, the novel chair comprises the pair of front leg members 10, composed for example of rigid material such as a metallic flattened and seamed tubular element, and a pair of rear leg members 11 of similar construction and of a length substantially equal to the length of the pair of front legs. The said pair of rear legs is designed to fit within the front pair when the chair is collapsed and are pivoted thereto at the respective upper ends of said legs.

These leg members carry, also, at their upper ends or pivotal connection a pair of arm members 12. The latter are arranged at either side of the chair and mounted as by means of a lug 13 extending downwardly from the under surface of the arm, the inner ends of the said arm members, furthermore, being pivotally connected to the sides of the upper portion of a back member 14, which back member has its lower portion or edge pivotally and slidably connected to the pair of rear legs. This connection is conveniently effected by means of laterally extending pins or, preferably, the ends of a rod 15 projecting from the sides of the back member 14 and arranged to fit within respective longitudinal slots 16 of the inner face of the flattened tubular members constituting the rear legs.

A seat member 20 is also pivotally and slidably connected with the said pair of rear legs similarly to the connection of the back member thereto, for example, by means of pins or rod ends 21 projecting outwardly from the sides of said seat member. These ends are located at the rear portion of the seat and extend into corresponding slots 22 of the said rear legs and of a length substantially equal to the length of the slots 16 and parallel thereto but longitudinally displaced therefrom in the leg members. Further provision is made for supporting the said seat, as by means of a bar or strap 23 positioned beneath and secured to the said seat between the front

pair of legs, the strap being pivotally attached to the latter, as shown.

Moreover, to maintain the seat and back apart as well as to facilitate the operations of extending and collapsing the chair, the inner end of said seat is arranged to be connected with the lower end of the back member and in a manner such that the former will be drawn in or folded toward the rear leg members when the chair is collapsed, as by tilting the chair forwardly on the front legs and exerting pressure on the back. Links 24 may to this end be inserted between the said seat and back members at either side thereof, for example over their respective pivoting members 21 and 15, the proportions of the whole organizations being such that the various members may be folded substantially within the width of the leg members with the arms folded thereover, as indicated in Fig. 2 of the drawings, the forward portion of the seat member swinging upwardly, while its rear portion slides downwardly in the slot 22 and the back member following in its slot 16. This causes, also, the arm members to be folded against the sides of said leg members so that all of the various members are compactly brought together substantially in the same plane.

To extend the chair for use, it is necessary merely to lift upwardly the back, a hand hold 25 in the upper portion of the back member being provided for this purpose; while to collapse the chair, it is tilted forward on the front legs and pressure exerted on said back.

I claim:

1. A collapsible chair, comprising a pair of front legs, a pair of rear legs secured at their respective upper ends to corresponding upper ends of the pair of front legs, a pair of arm members pivotally connected to the respective upper ends of said cooperating legs, a seat member pivotally and slidably connected to the rear pair of legs, means to pivotally support the seat member to the front pair of legs, and a back member pivotally secured to the inner ends of the respective arm members and pivotally and slidably connected to the respective rear legs.

2. A collapsible chair, comprising a pair of front legs, a pair of rear legs secured at their respective upper ends to corresponding upper ends of the pair of front legs, a pair of arm members pivotally connected to the respective upper ends of said cooperating legs, a seat member pivotally and slidably connected to the rear pair of legs, means to pivotally support the seat member to the front pair of legs, a back member pivotally secured to the inner ends of the respective arm members and pivotally and slidably connected to the respective rear legs, and means to swingably connect said back and seat member to each other.

3. A collapsible chair, comprising a pair of

front legs, a pair of rear legs secured at their respective upper ends to corresponding upper ends of the pair of front legs, a pair of arm members pivotally connected to the respective upper ends of said cooperating legs, a seat member having pins extending laterally therefrom into slots provided in the respective rear legs, means to pivotally support the seat member to the front pair of legs, and a back member pivotally secured to the inner ends of the respective arm members and having pins extending laterally therefrom into slots provided in the respective rear legs.

4. A collapsible chair, comprising a pair of front legs, a pair of rear legs secured at their respective upper ends to corresponding upper ends of the pair of front legs, a pair of arm members pivotally connected to the respective upper ends of said cooperating legs, a seat member having pins extending laterally therefrom into the slots provided in the respective rear legs, means to pivotally support the seat member to the front pair of legs, a back member pivotally secured to the inner ends of the respective arm members and having pins extending laterally therefrom into slots provided in the respective rear legs, and link members connecting the respective pin elements of the back and seat members.

5. A collapsible chair, comprising a pair of front legs, a pair of rear legs secured at their respective upper ends to corresponding upper ends of the pair of front legs, a pair of arm members pivotally connected to the respective upper ends of said cooperating legs, a seat member having pins extending laterally therefrom into slots provided in the respective rear legs, means to pivotally support the seat member to the front pair of legs, and a back member pivotally secured to the inner ends of the respective arm members and having pins extending laterally therefrom into slots provided in the respective rear legs, the latter slots being of length substantially equal to the length of the former slots, parallel thereto and longitudinally displaced with respect to the same.

6. A collapsible chair, comprising a pair of front legs, a pair of rear legs secured at their respective upper ends to the corresponding upper ends of the pair of front legs, and adapted to fit within the same, a pair of arm members each having a lug extending downwardly from its under surface for pivotal connection with the respective upper ends of said cooperating legs, a seat member pivotally and slidably connected to the rear pair of legs, means to pivotally support the seat member to the front pair of legs, and a back member pivotally secured to the inner ends of the respective arm members and pivotally and slidably connected to the respective rear legs.

7. A collapsible chair, comprising a pair  
of front legs, a pair of rear legs secured at  
their respective upper ends to the corre-  
sponding upper ends of the pair of front  
legs, and adapted to fit within the same, a  
5 pair of arm members each having a lug ex-  
tending downwardly from its under surface  
for pivotal connection with the respective  
upper ends of said cooperating legs, a seat  
10 member having pins extending laterally  
therefrom into slots provided in the respec-  
tive rear legs, means to pivotally support  
the seat member to the front pair of legs,  
a back member pivotally secured to the in-  
15 ner ends of the respective arm members and  
having pins extending laterally therefrom  
into slots provided in the respective rear  
legs, and link members connecting the re-  
spective pin elements of the back and seat  
20 members.

In testimony whereof I affix my signa-  
ture.

WILLIAM J. BAUER.

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