Jan. 5, 1954 C. E. E. LUNDQUIST 2,664,944

CHAIR

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Fig. 1

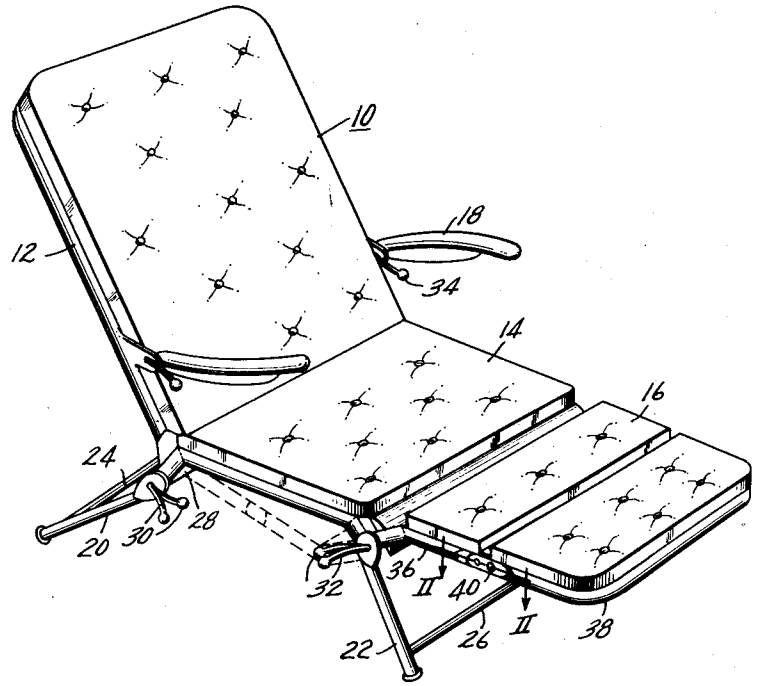
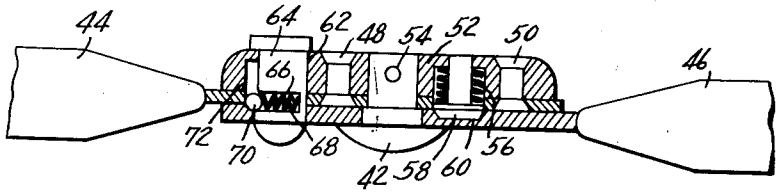


Fig. 2



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CHAIR

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2 Claims. (Cl. 155—171)

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This invention relates to a chair comprising frame members forming a seat, a back, two pairs of legs and a foot-rest, said frame members being relatively pivotally interconnected. More particularly my invention relates to chairs of the kind described in my U. S. Pat. No. 2,410,088 according to which the individual frame members together constitute a normally coherent unit and are adjustable relative to each other in various angled positions, the operating means necessary for the adjusting being shaped so as at the same time to actuate the locking members on both sides of the chair. Advantageously a chair of this type is foldable into a small and easily transportable bulk for which purpose the frame members are bent near their pivot joints so as to have the individual frame members when the chair is folded extending substantially parallel to each other.

The principal object of my invention is to provide a chair of this type which in the most simple manner is adjustable from an easy-chair to a chair for use as an ordinary chair to sit upon, for instance a work-chair without having to remove any members or to place them so that they disturb the occupant.

Further objects and advantages of my invention will be apparent from the following description of a preferred embodiment thereof considered in connection with the accompanying drawing, which forms a part of this specification, and of which:

Fig. 1 is a perspective view of a chair embodying the invention having a foot-support belonging thereto raised up to its position of use; and

Fig. 2 is a partial section on a larger scale, on the line II—II of Fig. 1.

In the drawing, 10 designates generally a chair the frame members of which preferably consist of metal tubes and which is composed of a back 12, a seat 14, a foot-rest 16, elbow-rests 18 and pairs of legs 20, 22 having transverse frame-girders 24, 26. The back, the seat and the rear pair of legs 20 are with their bent end portions, pivotally mounted in known manner, on a common spindle 28 and positively lockable relative to each other by means of grooved discs facing each other and rigidly mounted on the individual parts, which discs are adapted to be brought closer to or more remote from each other, respectively, with the aid of hand-levers 30. In the same manner the seat 14, the foot-rest 16 and the front pair of legs 22 are adjustable and lockable relative to one another with the aid of hand-

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levers 32, and so are the elbow-rests 18 relative to the lateral frame portions of the back, with the aid of hand-levers 34. The specific details of construction of the apparatus for pivotally connecting and locking the front and rear legs and the foot rest with respect to the seat frame do not form per se a part of the present invention, and any one of numerous different specific constructions may be employed for that purpose, several different specific embodiments of which are suitable for the purpose being disclosed in detail in my aforementioned U. S. Patent No. 2,410,088.

When the chair is to be adjusted from the position shown in Fig. 1 to the position in which it is usable as a work-chair, the foot-rest 16 formed by two elements 36, 38 is folded around lockable joints generally designated by 40 and placed opposite the one to the other. Thus the front element 38 will be placed under the rear element 36. After that, the lock of the joint connecting the foot-rest 16 with seat 14 is released by operating the hand-levers 32, and the foot-rest can then be turned under the seat 14 without the frame girder 26 constituting any obstacle thereagainst, and then be unfolded and locked in the position indicated in Fig. 1 by dotted lines.

Each of the joints 40 comprises, as is evident from the Fig. 2, a joint bolt 42 extending through the frame elements 44, 46 flattened down at their ends, and a member 52 secured to the one frame element 44 by means of rivets 48, 50, in which member the joint bolt 42 is locked by a detachable pin 54. On one side of the joint bolt 42 the member 52 has a groove 56 containing a spring-actuated bolt 58 yieldingly extending into a recess 60 in the frame element 46 and thus forming a catch device becoming operative as soon as the elements have reached a predetermined position with one extending substantially in the same plane behind the other. On the other side of the joint bolt 42 a bore 62 extending through the member 52 and the frame elements 44, 46 is entered by a rod 64 adapted definitively to lock the portions in question. In order to prevent said rod from being removed unintentionally, the same has a transverse bore 66 containing a spring 68 adapted to press a ball 70 outwardly into a groove 72 provided in the member 52 and the frame element 44 and extending upwardly to the neighbourhood of the upper edge of the member 52. Since the ball 70 is prevented from totally leaving the bore 66 the axial displacement of the rod 64 is limited.

While one more or less specific embodiment of

the invention has been shown, it is to be understood that this is for the purpose of illustration only, and the invention is not to be limited thereby, but its scope is to be determined by the appended claims.

What I claim is:

1. In a chair, the combination with a frame including a seat portion having side members supported at their forward ends by front legs, of a folding foot rest comprising a first part pivotally connected to the forward end portions of said side members to turn in a vertical plane and a second part pivotally connected to said first part to turn in a vertical plane about an axis parallel with the axis about which said first part turns, the pivotal connection between said first and second parts comprising joint structures having releasable locking means for holding said parts locked in extended position relative to each other, and the width and depth of said parts being related to the distance between said front legs and the height of the free space beneath said seat and between the legs so as to permit said parts to be swung back between said legs when folded relative to each other and locked in extended position relative to each other under the seat.

2. A device as defined in claim 1 including releasable locking means for holding said first part of said foot rest in predetermined positions of rotation relative to said side members, whereby to enable the foot rest to be maintained in desired position when in use and clear of the floor when extended under the seat.

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