No. 728,141. PATENTED MAY 12, 1903.

D. M. STEWART, S. B. SAFFELL & E. J. ANDREWS.

KNOCKDOWN ADJUSTABLE CHAIR.

APPLICATION FILED MAY 29, 1902.

NO MODEL.

Fig. 1.

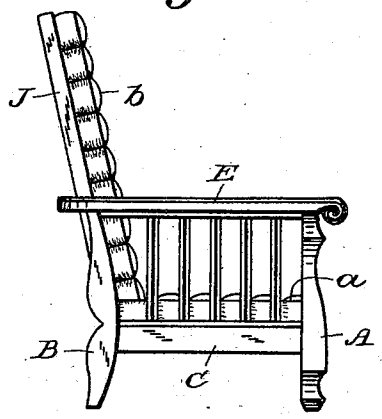


Fig. 2.

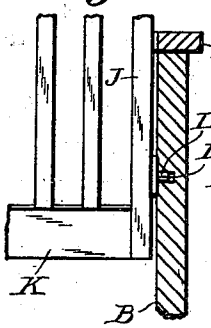


Fig. 3.

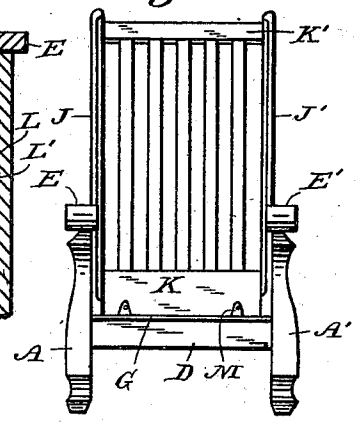


Fig. 4.

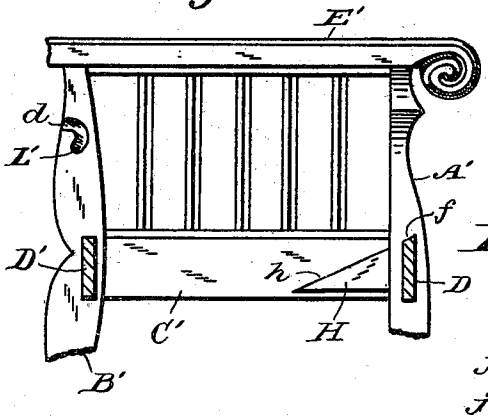


Fig. 5.

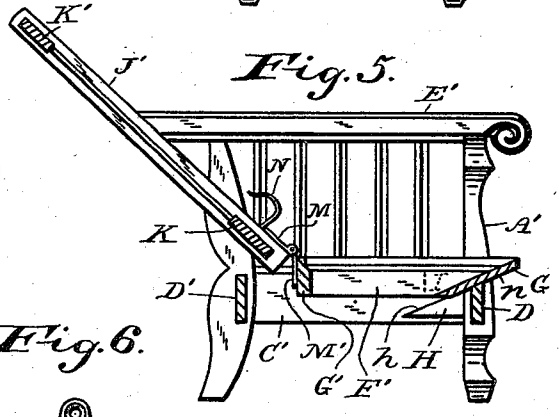


Fig. 6.

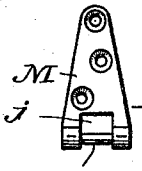


Fig. 7.

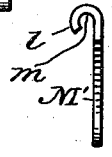


Fig. 8.

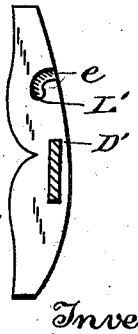


Fig. 9.

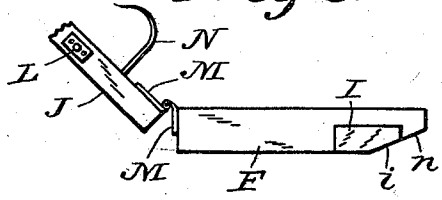
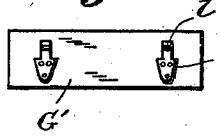


Fig. 10.



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No. 728,141. Patented May 12, 1903.

UNITED STATES PATENT OFFICE.

DAVID M. STEWART, OF GREENFIELD, SILAS B. SAFFELL, OF INDIANAPOLIS, AND EDGAR J. ANDREWS, OF GREENFIELD, INDIANA.

KNOCKDOWN ADJUSTABLE CHAIR.

SPECIFICATION forming part of Letters Patent No. 728,141, dated May 12, 1903.

Application filed May 29, 1902. Serial No. 109,435. (No model.)

To all whom it may concern:

Be it known that we, DAVID M. STEWART, residing at Greenfield, in the county of Hancock, SILAS B. SAFFELL, residing at Indianapolis, in the county of Marion, and EDGAR J. ANDREWS, residing at Greenfield, in the county of Hancock, State of Indiana, citizens of the United States, have invented new and useful Improvements in Knockdown Adjustable Chairs; and we do declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to the type of chairs that may be adjusted for use in either upright or reclining positions, and it has reference more particularly to improvements whereby the chairs may be adapted to be knocked down for shipment as well as for convenience when cleaning them.

The object of the invention is to improve the details of construction and provide that the backs and the seats may be instantly connected to the main frame and also be disconnected therefrom without the aid of tools in the operation, so that a factory may make up different styles of each part and then select such styles as may be ordered for shipment, the parts to be assembled by the purchasers.

The invention consists in the novel parts and in the combination and arrangement of parts, as hereinafter particularly described and claimed.

Referring to the drawings, in which similar reference characters indicate corresponding parts throughout, Figure 1 is a side elevation of a chair constructed acccording to our invention adjusted to the upright position and having cushions thereon; Fig. 2, a fragmentary detail view showing the manner in which the back-frame is hung to the main frame; Fig. 3, a front elevation view of the chair without the cushions; Fig. 4, a fragmentary longitudinal vertical sectional view of the main frame; Fig. 5, a longitudinal vertical sectional view in which the seat and the back are adjusted to the reclining positions; Fig. 6, a plan view of a part of the devices whereby the rear part of the seat-frame is supported by the back-frame; Fig. 7, a side view of the part that coacts with that shown in Fig. 6; Fig. 8, a view of the inner side of a rear leg, showing a modification in the recess for supporting the back-frame trunnion; Fig. 9, a side view of the seat-frame and a portion of the back-frame connected thereto; and Fig. 10, a rear view of the seat-frame, to which are attached the supporting devices therefor.

In construction the main frame comprises four posts A A′ B B′, which form the legs and also the direct supports for the arm-rests and the back-frame, and longitudinal side rails C C′ and transverse rails D D′. The rails are secured rigidly to the sides of the posts, and arm-rests E E′ are rigidly secured upon the posts. Suitable cushions *a* and *b* are provided and are removable. At the inner sides of the rear posts B B′ are journaled bearings L′, that are recessed in the posts and are accessible through channels *d*, extending from the rear faces of the posts, or channels *e*, extending from the forward faces thereof. The front rail D has an inclined top *f*, upon which the seat-frame may slide. The seat-frame is removably mounted normally within the confines of the main frame-rails, and it comprises sides F F′ and ends G G′, connected rigidly together, and the end G is inclined, so that the lower portion *n* extends rearwardly under the frame and is adapted to and bears upon the top *f* of the rail D. Additional supports for the forward part of the seat-frame may also be provided, such as the blocks H, attached to the rails C C′ and having inclined top faces *h* and blocks I, secured to the sides F F′ of the seat-frame, and having smooth inclined faces *i*, engaging the faces *h*.

The back-frame is removably hung to the rear posts B B′ above the rail D′, and it comprises sides J J′ and end ralls K K′ and also suitable slats. Trunnions L are attached to the outer faces of the sides J J′ and extend into the bearings L′ in the rear posts, so that the back-frame is pivotally supported thereby. Eye-plates M are attached to the forward face of the rail K, and they each preferably comprise a broad end having an opening *j*, across which extends a bar *k*. Spring-

clasps N may also be attached to the rail K for holding up the back-cushion. Hook plates M′ are secured against the rear face of the end G′ of the seat-frame, and each has a hook *l* at its upper end adapted to extend through the opening *j* and having a bearing *m* to engage the bar *k*. It is seen that by means of the hooks and eyes the rear end of the seat-frame is supported in a pivotal manner by the back-frame, and it is also designed that when the back-frame is removed the hooks *l* may engage the rail D′ and support the rear end of the seat-frame in shipment, while the back-frame and the cushions may be packed upon the seat-frame, thus being compact.

In practical use the chair may be operated and adjusted automatically in the same manner as are other chairs of similar forms of construction now in common use. When it is desired to clean the chair, the cushions may be lifted off, the seat-frame lifted from its supports, and the back-frame lifted from its bearings, thus exposing all the parts and surfaces.

Having thus described our invention, what we claim is—

1. In a knockdown adjustable chair, the combination of the main frame comprising the posts and the front rail, the back-frame, the channeled bearings in the posts, the trunnions attached to the back-frame and engaging said bearings, the seat-frame having the inclined lower front portion extending over the front rail, the blocks having the inclined bearings secured to the main frame, bearings secured to said seat-frame and engaging said inclined bearings, the eye-plates and the hook-plates connected together in pairs, one plate of each pair being attached to the back-frame and the other plate to the rear end of the seat-frame, substantially as set forth.

2. In a knockdown adjustable chair, the combination of the main frame comprising the posts and the front rail having the inclined top, the back-frame, the channeled bearings in the posts, the trunnions attached to the back-frame and engaging said bearings, the seat-frame having the inclined front extending over the inclined top, the hook-plates secured to the seat-frame, the eye-plates secured to the back-frame and engaging the hook-plates, the blocks having the inclined bearings secured to the main frame, and the blocks having the inclined bearings secured to the seat-frame, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

DAVID M. STEWART.
SILAS B. SAFFELL.
EDGAR J. ANDREWS.

Witnesses:
H. S. FULLER,
WILLIAM N. WENNER.