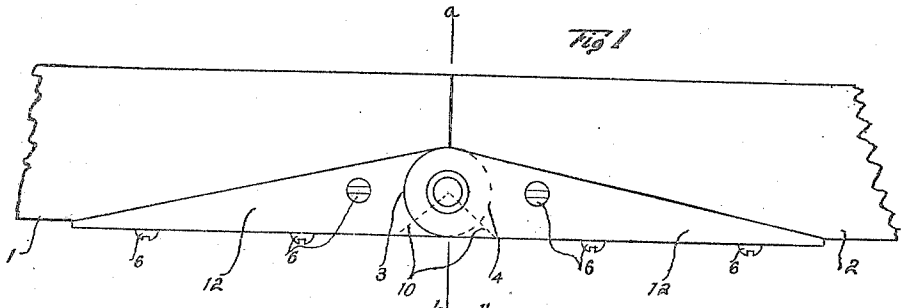
C. A. ROBINSON.

CHAIR.

APPLICATION FILED OCT. 12, 1914. RENEWED JUNE 18, 1918.

1,291,150. Patented Jan. 14, 1919.

Fig 1



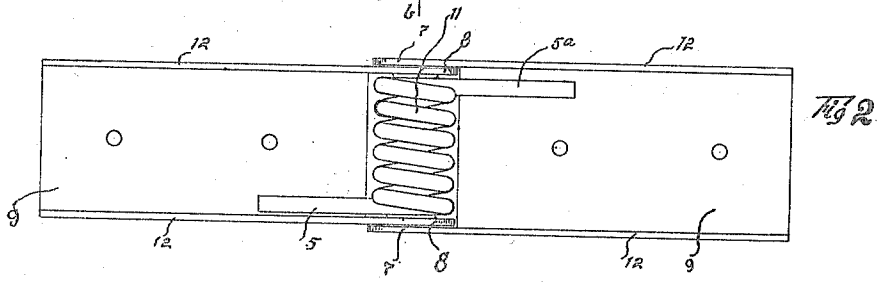
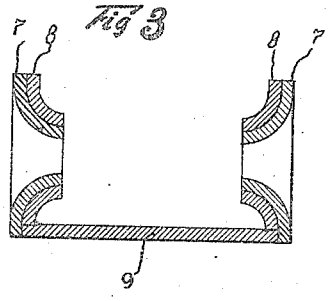


Fig 2

Fig 3



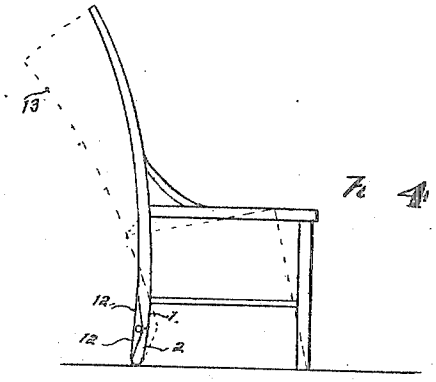


Fig 4

WITNESSES:

C. M. Walker

J. L. Elwell

INVENTOR.

Charles Alfred Robinson

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES ALFRED ROBINSON, OF PUEBLO, COLORADO.

CHAIR.

1,291,150. Specification of Letters Patent. Patented Jan. 14, 1919.

Application filed October 12, 1914, Serial No. 866,365. Renewed June 18, 1918. Serial No. 240,689.

To all whom it may concern:

Be it known that I, CHARLES ALFRED ROBINSON, a citizen of the United States, and a resident of Pueblo, in the county of Pueblo and State of Colorado, have invented a certain new and useful Improvement in Chairs, of which the following is a full, clear, and exact description.

My invention relates to chairs and in particular to chairs of the so-called "stiff back" type, which are rigid, non-foldable structures having four substantially vertical legs supporting the same without the interposition of rockers or the like. The object of my invention is to provide the rear legs of such devices with a hinged section, which section in normal position constitutes a continuation of the leg to render the chair similar to the ordinary chair of this type, but which section may be swung with relation to the remainder of the chair leg to shorten the same and thus render the chair a tilting or reclining one while still having four legs resting on the floor. I also prefer to provide the hinge by which the sections are joined with spring means whereby when the lower sections are swung out of line the load on the chair will be carried by said springs—which constitute a resilient or cushioning support for the chair and permit of the same having a rocking action thereon as the hinges are more or less bent. A further object of my invention is to so design the device that it may be readily applicable to existing chairs as well as to new ones in the operation of making the same. Further and more detailed objects and advantages of my invention will later appear from this specification.

In the single sheet of drawings accompanying this application and forming a part hereof—

Figure 1 is a partial side view of a chair leg divided as described and provided with a hinge according to my invention;

Fig. 2 is a plan view of a preferred form of hinge;

Fig. 3 is a transverse section through the hinge shown in the remaining figures, taken on the line *a*—*b* of Fig. 1; and

Fig. 4 is a side view of a chair embodying my invention.

Referring to the drawings, in which is illustrated the preferred embodiment of my invention, it will be seen that the rear legs of a chair are divided into an upper section 1 rigid with the remainder of the chair and a lower section 2 connected to the section 1 by a hinge joint. The front side of the meeting plane between the sections is so shaped as to permit their adjacent faces contacting when the parts are in normal position, as shown in Figs. 1 and 4, but the rear side is provided with a hollowed out recess, preferably bored on substantially the circle 3—4 of Fig. 1. The section faces are also chamfered on substantially the lines 10 to permit the lower section to swing around the hinge as will be later described.

The hinge which I prefer to employ comprises two leaves indicated by the numerals 7 and 8, each leaf carrying struck out or embossed bearings as shown in Fig. 3, the embossed portions on one of said sections being larger than those on the other to permit of the latter entering the former to provide for a swinging bearing therein. Each hinge section comprises a web 9 with a pair of flanges 12 extending therefrom, thus providing a socket for the reception of the corresponding leg section which is to be secured therein by screws 6. Adjacent the axis of the hinge there is provided a coiled spring 11 having its ends 5, 5^a in position to react against the leg sections when in place, the outer coils of this spring preferably engaging the inner portions of the embossed bearings to retain the spring in position.

A chair provided with this knee-joint on the two rear legs as described may be made to lean backward so that the occupant may assume a reclining position; or the occupant may gently rock upon the rear leg. The spring 11 by means of the extensions 5 and 5^a engaging the adjacent ends of the leg sections will permit of this action and will return the chair seat back to a horizontal position at the will of the occupant.

Having thus described my invention what I claim and desire to secure by Letters Patent is:—

1. In combination, a chair of the "stiff back" type having its rear legs transversely divided into upper and lower sections, and a two leafed hinge member located with its axis adjacent the meeting plane of said sections and having a leaf secured to each of said sections.

2. In combination, a chair of the "stiff back" type having its rear legs transversely divided into upper and lower sections, and a two leafed, spring pressed hinge member

located with its axis in the meeting plane of said sections and having a leaf secured to each of said sections.

3. In combination, a chair of the "stiff back" type having its rear legs transversely divided into upper and lower sections, and a two leafed, spring pressed hinge member located with its axis in the meeting plane of said sections and having a leaf secured to each of said sections, said hinge being mounted to swing rearwardly.

CHARLES ALFRED ROBINSON.

Witnesses:
T. R. JONES,
C. M. WALKER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."