A. WILEY.

CHAIR.

APPLICATION FILED MAY 10, 1919.

1,325,548.

Patented Dec. 23, 1919.

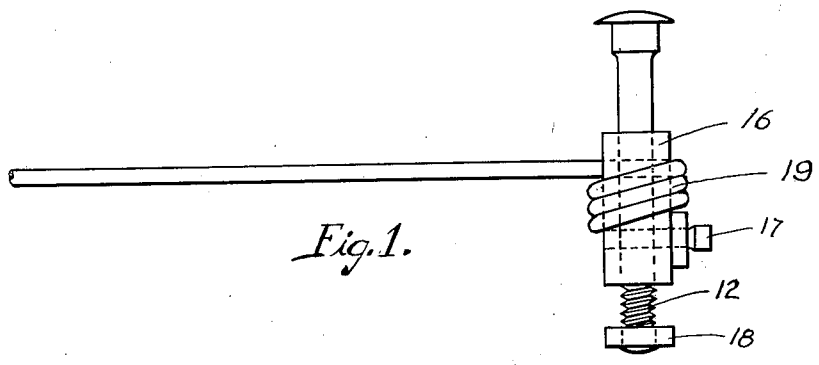


Fig. 1.

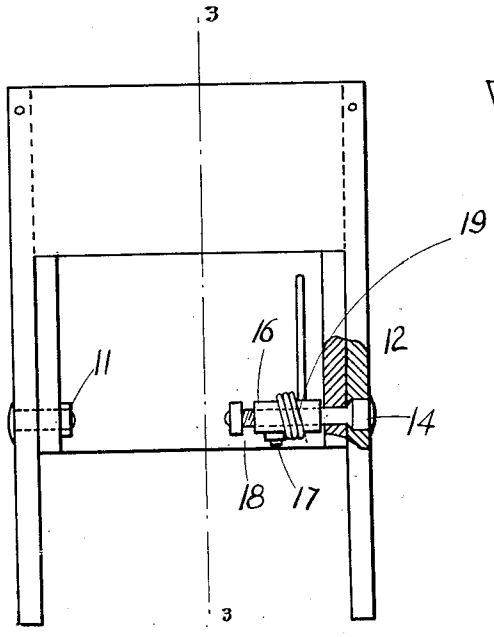


Fig. 2.

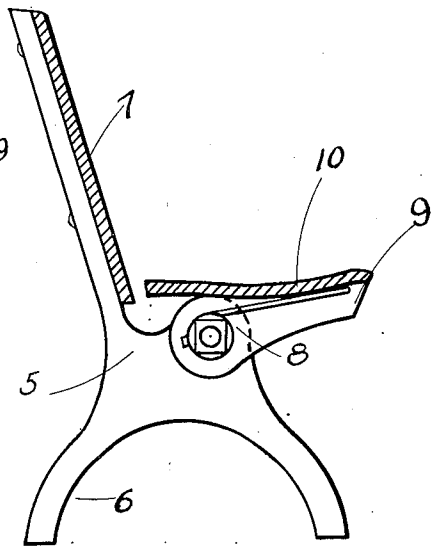


Fig. 3.

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UNITED STATES PATENT OFFICE.

AD WILEY, OF BEDFORD, IOWA.

CHAIR.

1,325,548. Specification of Letters Patent. Patented Dec. 23, 1919.

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To all whom it may concern:

Be it known that I, AD WILEY, a citizen of the United States, residing at Bedford, in the county of Taylor and State of Iowa, have invented a new and useful Chair, of which the following is a specification.

This invention relates to chairs and particularly to chairs to be used in school rooms, theaters and other public places.

The primary object of the invention is to provide a chair, the seat of which is automatically raised to a vertical position when a person is not seated thereon, thus permitting sufficient space between the rows of chairs to permit persons to readily pass therebetween.

A further object of this invention is to provide a chair having a seat which swings to a vertical position by the action of a spring when the seat is not in use, the spring being so positioned as to be readily removable from the same to replace with a new one should it be necessary to do so.

Still another object of the present invention is to provide a spring actuated chair which is durable in construction and which will greatly add to the comfort of the patrons of the public place.

Another object of this invention is to provide an attachment that may be used in conjunction with various types of chairs having a pivoted seat which will always retain the seat in its raised vertical position when the seat is not in use.

An additional object of the invention is to provide a spring actuated chair which is simple in construction, which consists of few parts and which may be manufactured and sold at a minimum cost.

With the above and other objects and advantages in mind, the invention consists of combinations of elements, arrangements of parts, constructions and operations, and general assemblage, the details of which will be hereinafter enlarged upon and illustrated in the accompanying drawings, wherein one embodiment of the invention has been illustrated, the inventive features being specifically defined in the subjoined claims.

On the drawings:—

Figure 1 is an elevation of the attachment removed from the chair;

Fig. 2 is a front elevation of the chair in raised vertical position, parts of the same being shown in section; and

Fig. 3 is a vertical cross section taken on line 3—3 of Fig. 2, the seat being in horizontal position or in the position if a person were seated thereon.

On the drawing, wherein like characters of reference designate like parts in all of the views, the numeral 5 denotes a chair standard having legs 6 and having the back rest 7 attached to the standards at their upper ends. The standards 5 are formed with forwardly extending parallel ears 8 with which the supporting arms 9 are pivotally connected, the supporting arms 9 having a seat 10 secured thereto. One of the supporting arms 9 is pivotally connected with one of the ears 8 by a pivot bolt 11, while the opposite arm is connected to its ear through the medium of my improved attachment which consists of a bolt 12 extending transversely through this arm and the adjacent ear, the bolt being provided with a rectangular head which is seated in an opening 14 in said ear to prevent the bolt from rotating. A sleeve 16 is threaded upon this bolt and is held against rotation by a set screw 17. This sleeve is threaded on the bolt 12 and almost abuts the adjacent arm 9 and thus prevents the bolt from shifting longitudinally or this arm 9 from shifting laterally. A nut 18 is threaded on this bolt.

A spring 19 is coiled about the sleeve 16 and has one end attached to the set screw 17 by bending the same around this set screw, the spring 19 is extended forwardly in parallelism with the supporting arms 9 and positioned against the under face of the seat 10. It will be thus seen that this relatively long extended part of the spring bears against the seat and urges the same to a vertical position when a person is not seated thereon.

The embodiment of the invention here shown and described is considered the preferred construction, but it will be understood that the same may be modified and altered in many respects and that my limits of modification are governed only by what is claimed.

What is claimed is:—

1. The combination with a stationary member, and movable member carrying an arm, of a pivot pin extending transversely through the arm and stationary member, a sleeve longitudinally adjustable on the pivot pin and having one end disposed adjacent the arm to prevent lateral movement of the latter in one direction, a set screw carried by the sleeve and engaging the pivot

pin to retain the sleeve in adjusted position, and a coil spring encircling the sleeve and having one end connected with the set screw and its opposite end extended against the movable member and normally urging the latter to a vertical position.

2. In a chair, a chair standard, a seat hingedly connected with the standard, a bolt passing through the standard and seat, the bolt constituting one of the pivots of the seat, a sleeve threaded on the bolt, and having one end disposed adjacent part of the seat to prevent lateral movement of the same, and a coil spring encircling the sleeve and having one end extended forwardly and engaged with the under face of the seat to normally retain the same in a vertical position and the other end anchored to the sleeve.

3. In a seat, a standard, a seat including a pair of supporting arms, one of the supporting arms being pivotally connected to one side of the standard, a bolt passing through the opposite side of the standard and the other supporting arm, a sleeve threaded on the bolt and disposed in close proximity to said supporting arm, a set screw threaded in the sleeve and engaging the bolt and a coil spring encircling the sleeve and having one end bent around the set screw and its opposite end extended to underlie the under face of the seat to retain the same in a vertical position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

AD WILEY.

Witnesses:
FRANK GOLDING,
M. R. BRANT.