Sept. 9, 1930. O. O. KRABOL 1,775,433

TYPEWRITER CHAIR

Filed Nov. 6, 1928

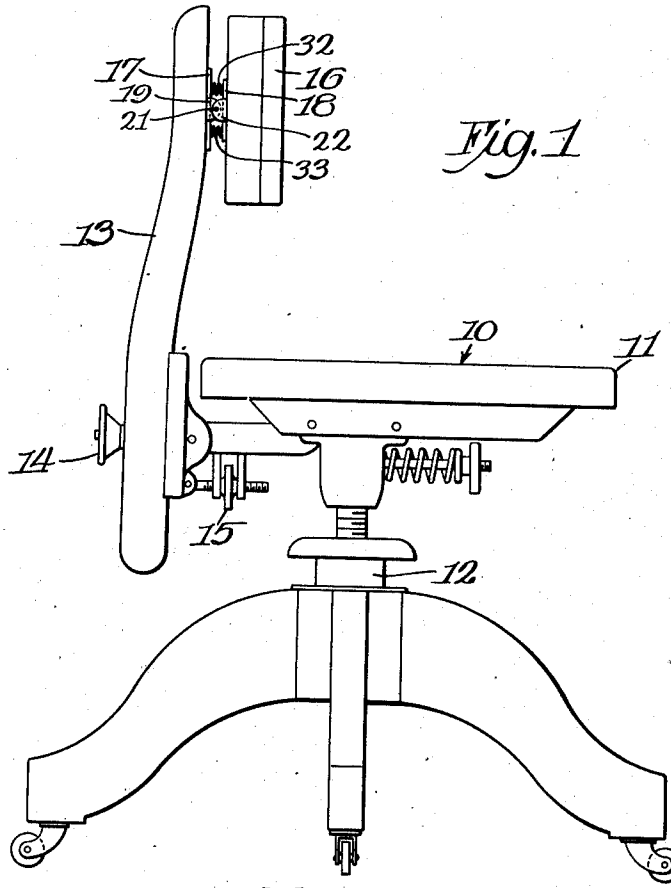


Fig. 1

Fig. 2

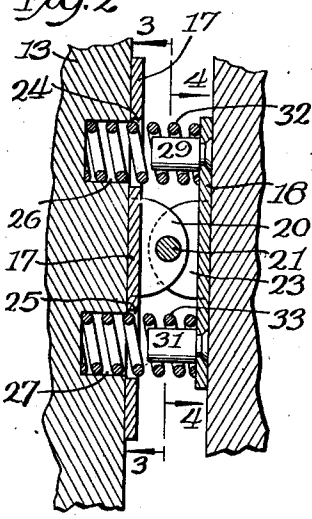


Fig. 3

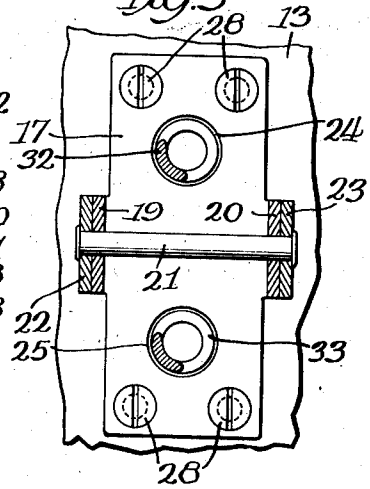
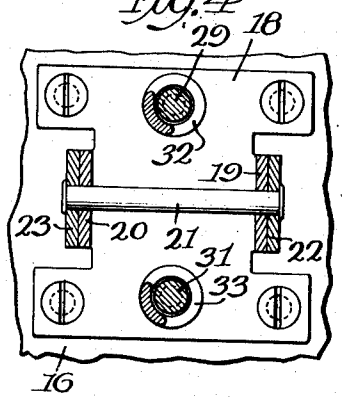


Fig. 4



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UNITED STATES PATENT OFFICE

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TYPEWRITER CHAIR

Application filed November 6, 1928. Serial No. 317,500.

This invention relates to seats or chairs, and more particularly to backs for typewriter chairs and the like.

The principal object of the invention is the provision of new and improved means for supporting back rests on the back standards of typewriter chairs in such a manner that they may automatically adjust themselves to the back of the typist.

Another object of the invention is the provision of a new and improved hinge mechanism for mounting the back rests of typewriter chairs so that said rests may automatically adjust themselves in use and be yieldingly held in operative position at all times.

A still further object of the invention is the provision of a new and useful back rest supporting member or mounting that is simple in construction, cheap to manufacture, easily assembled, efficient in operation, and will be automatically adjusted to the most comfortable position for the occupant when in use.

Other and further objects and advantages will appear from the following description taken in connection with the accompanying drawings, in which

Fig. 1 is a side elevation of a typewriter chair, showing the invention in position thereon;

Fig. 2 is a vertical section through the back member and back rest, showing the invention in position therein, with parts broken away;

Fig. 3 is a vertical section on the broken line shown in Fig. 2 and looking in the direction of the arrows 3—3; and

Fig. 4 is a similar section but looking in the direction of the arrows 4—4 in Fig. 2.

On the drawings, the reference character 10 designates generally a typewriter chair comprising the seat portion 11, supporting pedestal 12 and back member 13. The back member may be adjusted vertically and held in adjusted position by the clamping member 14, and be adjusted angularly by the adjusting mechanism 15. The back rest is shown at 16.

Since the above described construction is well known in the art, it is not thought necessary to further illustrate or describe the same.

It is desirable that the back rest 16 be so supported that it will readily and automatically adjust itself to a position while in use that will be the most comfortable and at the same time will be yieldingly held in a predetermined position when not in use. This is accomplished by the mechanism that will now be described.

In the form of construction selected to illustrate one embodiment of the invention, the connection between the back member and rest comprises the hinge member 17 secured to the back member 13 and the hinged member 18 secured to the back rest 16. The hinge member 17 may be in the form of a plate provided with hinge ears or lugs 19 and 20 extending outwardly therefrom and having alined openings for receiving a hinge pintle 21, see Fig. 3. The hinged plate member 18 is provided with ears or hinge lugs 22 and 23 which are provided with alined openings for receiving the hinge pintle 21, see Figs. 3 and 4, for connecting the plate members 17 and 18 together.

Suitable means are provided for normally yieldingly holding said hinged member 18 in a predetermined position relative to said hinge member 17. In the form of construction shown, resilient members as the coil springs 32 and 33 are employed for this purpose, one above and one below the hinge pintle. In order to increase the resiliency and movement of these springs, provision is made for increasing their length. One of the members of the hinge, as shown, the hinge member 17, is provided with a couple of holes 24 and 25 which are adapted to aline with openings or recesses 26 and 27 in the back member 13 as clearly shown in Fig. 2 of the drawing. The hinge member 17 is attached to the rest member in any suitable manner as by means of the screws or other fastening means 28.

The plate member 18 has attached thereto studs 29 and 31 which are adapted to be in axial alinement with the openings 24 and 25 in the back member 13 whereby said studs

will be received in said openings during abnormal rocking of the back rest 16. Springs 32 and 33 have their rear ends secured in the openings or recesses 26 and 27, respectively, and engage the studs 29 and 31 for positioning their forward ends as clearly shown in Fig. 2 of the drawings, whereby the back rest member 16 will be yieldingly held in a predetermined position when the chair is not occupied. The hinge and spring members will enable the back rest to be automatically adjusted to a position most comfortable for the occupant of the chair.

The hinge members 17 and 18 may be formed in any suitable manner. Preferably they are stamped from sheet metal with the ears or pivot lugs extending at right angles to the body of the plate, as clearly shown in Figs. 3 and 4.

While the hinge device is disclosed as being employed for pivotally securing a back rest to a seat back, it is understood that this is by way of example only, and that this device may be used in other relations or between any hinge and hinged members where it is desirable that the hinged member be normally yieldingly held in a predetermined position.

It is thought from the foregoing taken in connection with the accompanying drawings that the construction and operation of my device will be apparent to those skilled in the art, and that various changes in size, shape, proportion and details of construction may be made without departing from the spirit and scope of the appended claim.

I claim as my invention:

In combination, a seat back member having a pair of openings therein, a back rest member in front of said seat back member, means for connecting said members together, said means comprising a hinge plate secured to said seat back member and having a pair of openings in alignment with said first named pair of openings, a hinge plate attached to said back rest member and pivoted to said first named hinge member between the openings therein, said last named plate having a pair of rearwardly extending pins opposite said openings and normally spaced therefrom and adapted to be received therein during abnormal rocking of said back rest member, and a pair of springs, each having a plurality of coils extending within said openings and encircling said pins for normally resisting the rocking movement of said back rest member, the openings in said back member being of considerable depth whereby comparatively long springs may be employed without increasing the space between said members.

In testimony whereof I affix my signature.

OLAUS O. KRABOL.