Dec. 2, 1930. R. C. HUNTLEY 1,783,426

ADJUSTABLE CHAIR

Filed Dec. 11, 1929

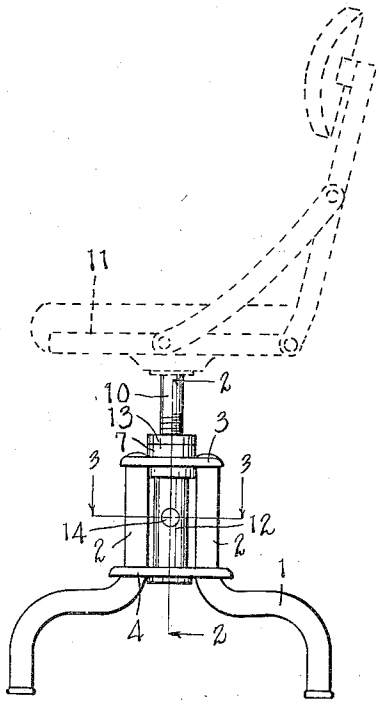


Fig. 1

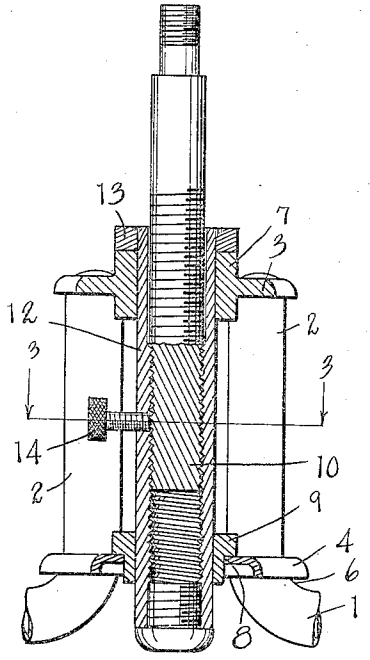


Fig. 2

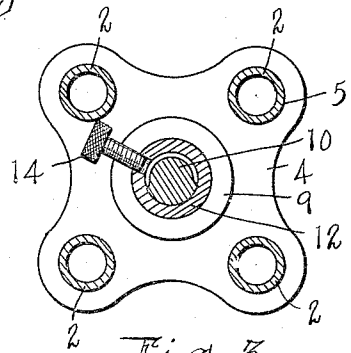


Fig. 3

INVENTOR
Reginald C. Huntley
BY Chappell & Earl
ATTORNEYS

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UNITED STATES PATENT OFFICE

REGINALD C. HUNTLEY, OF STURGIS, MICHIGAN, ASSIGNOR TO STURGIS POSTURE CHAIR COMPANY, OF STURGIS, MICHIGAN

ADJUSTABLE CHAIR

Application filed December 11, 1929. Serial No. 413,197.

The main object of this invention is to provide in a chair of the office type an improved leg or pedestal structure in which the spindle is rotatably supported and easily adjusted, and at the same time very strong and rigid and durable and simple and economical in its parts.

Objects relating to details and economies of my invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a side elevation of an office chair embodying the features of my invention, the seat and back being shown by dotted lines.

Fig. 2 is an enlarged fragmentary view partially in vertical section on line 2—2 of Fig. 1.

Fig. 3 is a horizontal section on line 3—3 of Figs. 1 and 2.

Referring to the drawing, the structure illustrated comprises four legs 1 formed of tubes or pieces of pipe bent into angular form of a general Z-shape and having the upper ends 2 disposed in closely grouped parallel relation.

The head plate 3 is mounted on the upper ends of these legs, it preferably having studs projecting into the legs as shown in my application for Letters Patent filed February 27, 1929, Serial No. 343,035.

A tie plate 4, preferably a stamping, is provided with holes 5 through which the legs are disposed, this plate engaging the legs at the upper angles 6 thereof, resting upon the shoulders formed by these angles so that no further connecting means are necessary for this plate. The portions 2 of the legs are thus rigidly supported in upright parallel relation.

The head plate 3 is provided with a central bearing 7 while the tie plate is provided with a central opening 8 in which the shouldered bearing 9 is disposed, this bearing 9 being thus supported by resting on the plate.

The spindle 10 of the seat 11 is externally threaded to engage the seat supporting sleeve 12 which is rotatably supported in the bearings 7 and 9, this sleeve having a thrust collar 13 at its upper end resting upon the upper end of the bearing 7.

A set screw 14 secures the sleeve to the spindle so that in use the sleeve rotates in its bearing and thus rotatably supports the sleeve. The set screw 14 is of such length that when retracted as shown in Fig. 3 it projects between a pair of adjacent legs so that the legs serve as stops limiting the rotative movement of the spindle supporting sleeve, so that with the set screw thus adjusted, the seat may be raised and lowered by the turning of the spindle in the sleeve. However, when adjusted to the desired position the set screw is returned to spindle clamping position in which position it clears the legs, allowing the sleeve to rotate freely.

Structures embodying my improvements are very strong and rigid although made of comparatively light material. The structure may be readily adjusted and is neat and attractive in appearance.

I have not attempted to illustrate or describe various embodiments or adaptations which I contemplate as it is believed that this disclosure will enable those skilled in the art to embody or adapt my improvements as may be desired.

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

1. In a chair, the combination of angled legs having upright portions at their upper ends, a head having a central bearing therein mounted on the upper ends of said legs, a tie plate provided with openings through which said legs are arranged engaging the legs adjacent the angles at the lower ends of their said upright portions, said tie plate having a central opening therein, a shouldered bearing arranged in said opening, a seat provided with a threaded spindle, a tubular internally threaded spindle supporting sleeve rotatably mounted in said bearing in said head and said bearing in said tie plate, said sleeve being provided with a shoulder at its upper end resting upon the bearing of said head member, and a set screw threaded into said sleeve for locking said spindle

thereto, said set screw when retracted being adapted to project between an adjacent pair of legs for limiting the rotation of the sleeve thereby permitting the adjustment of the spindle therein.

2. In a chair the combination of angled legs having upright portions at their upper ends, a head having a central bearing therein mounted on the upper ends of said legs, a tie plate provided with openings through which said legs are arranged engaging the legs adjacent the angles at the lower ends of their said upright portions, said tie plate having a central opening therein, a shouldered bearing arranged in said opening, a seat provided with a threaded spindle, a tubular internally threaded spindle supporting sleeve rotatably mounted in said bearing in said head and said bearing in said tie plate, said sleeve being provided with a shoulder at its upper end resting upon the bearing of said head member, and a set screw threaded into said sleeve for locking said spindle thereto.

3. In a chair, the combination of legs having upper end portions disposed in parallel looped relation, a head having a central bearing therein mounted on the upper ends of said legs, a supporting plate mounted on said legs in spaced relation to said head and provided with a central opening, a shouldered bearing arranged in said opening, a seat provided with a threaded spindle, a tubular internally threaded spindle supporting sleeve rotatably mounted in said bearing in said head and said bearing in said tie plate and having a bearing collar resting upon the bearing of said head member and a set screw threaded into said sleeve for locking said spindle thereto, said set screw when retracted projecting into an adjacent pair of legs for limiting the rotation of the sleeve and permitting the adjustment of the spindle therein.

4. In a chair, the combination of legs having upper end portions disposed in parallel looped relation, a head having a central bearing therein mounted on the upper ends of said legs, a supporting plate mounted on said legs in spaced relation to said head and provided with a central opening, a shouldered bearing arranged in said opening, a seat provided with a threaded spindle, and a tubular internally threaded spindle supporting sleeve rotatably mounted in said bearing in said head and said bearing in said tie plate and having a bearing collar resting upon the bearing of said head member.

In testimony whereof I have hereunto set my hand.

REGINALD C. HUNTLEY.