

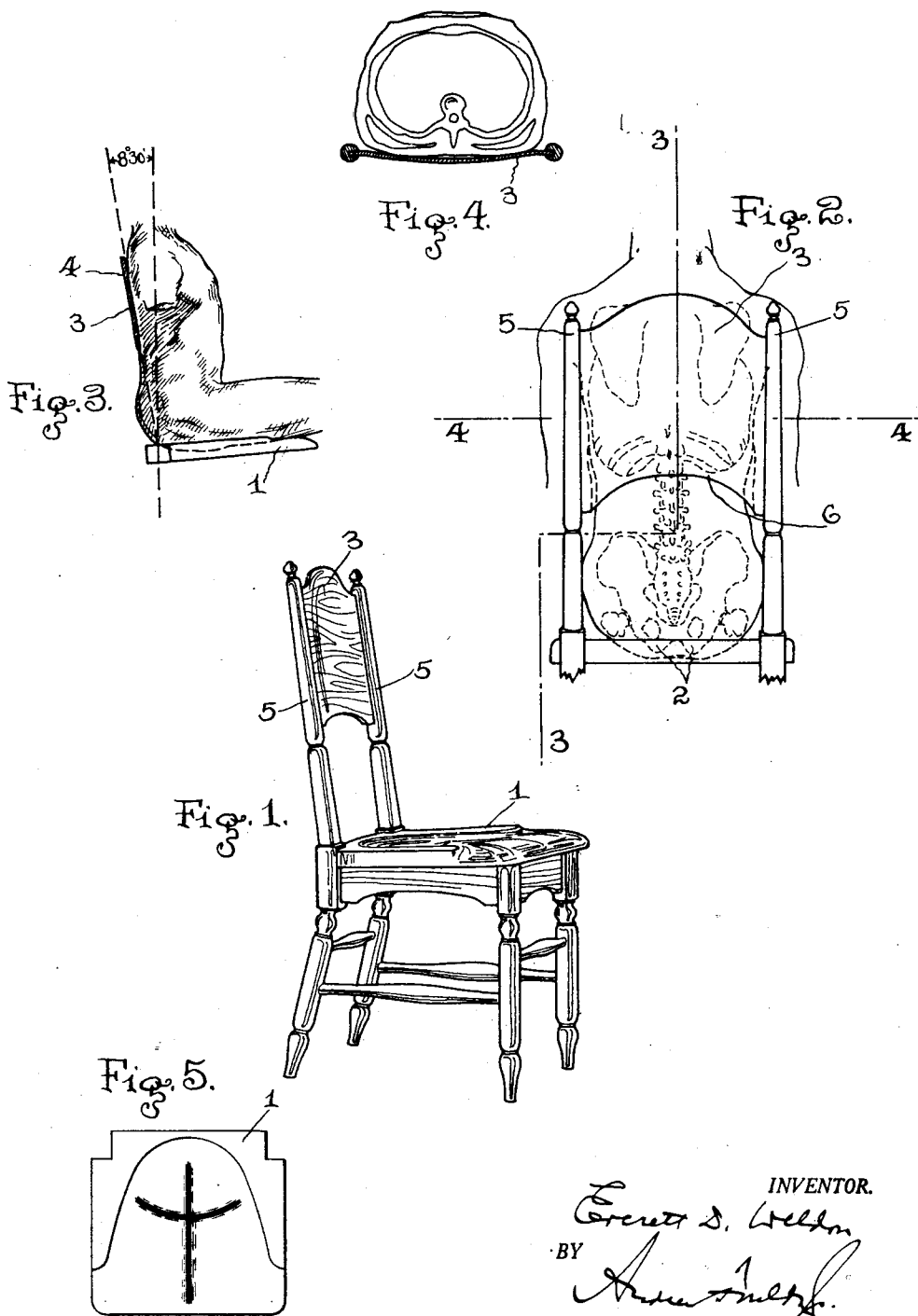
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CHAIR

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UNITED STATES PATENT OFFICE.

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CHAIR.

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My invention relates to chairs and more particularly to a chair constructed to provide ease and comfort to the person seated thereon.

5 An object of my invention is to provide a chair for general purposes. Another object is to build it according to basic principles of sitting posture paying particular attention to the angle of the chair back and
10 of the seat with relation to the vertical and horizontal respectively.

It is well known that the average rigid chair is not constructed to provide the comfort necessary for a prolonged period of sitting. Because of this, the average type of
15 chair is frequently tipped onto its back legs alone in order that the chair be rendered more comfortable to the user. I have therefore provided a chair which will overcome
20 these difficulties by certain modifications in the construction thereof. The advantages of my chair over the usual rigid chair, are many, as will hereinafter appear. By the particular angle of the back and of the seat
25 to the vertical and horizontal respectively and the particular position of the back support between the posts, the dorsal region of the spine and the pelvic bones are properly positioned in their normal locations in the
30 body of the person seated in the chair.

The chair may of course, be made in various sizes depending on the stature of the person to be fitted.

I attain these objects by the device illustrated in the accompanying drawings, in which

Figure 1 is a perspective view of the assembled chair,

Figure 2 is a rear view of part of the chair
40 diagrammatically showing the location of a human body seated thereon,

Figure 3 is a vertical section on the line 3—3 of Figure 2.

Figure 4 is a horizontal cross section on
45 line 4—4, of Figure 2.

Figure 5 is a plan view of the chair seat.

Similar characters of reference refer to similar parts throughout the several views.

In Figure 1 is shown a chair embodying
50 my improved construction. The seat or saddle

dle 1 is carved as an intaglio of the sitting parts of the human body, whereby the pressure of the body is evenly distributed over the chair seat and the two tuberosities 2 of the ischia do not bear all the weight of
55 the body. This carving out of the seat also allows the great and small trochanters to come into play as stabilizers for the seated torso.

The back support 3 is bent between posts 60 5 so that it is slightly concave to allow contact thereof only with the erector spinae muscles. This eliminates all possibility of producing injurious results which may be caused by contact of the back support with
65 the tips of the spinous processes. This concave curve of the back support is very slight at the top or shoulder line 4 so that there is no tendency to cause "round shoulders". The angle which this back support and the posts 5, 5 make with the vertical is substantially $8^{\circ} 30'$. This has been
70 found to be the best inclination for both comfort and proper posture. The posts 5, 5 are also set at the seat with their center lines on a line with the extreme back edge of the carved out seat, Fig. 3. The seat is inclined
75 so that its rear edge is about one-half inch below its forward edge.

The back support 3 has an upwardly
80 curved lower edge and is placed between the posts 5, 5 at such a height that the curved lower edge will conform to the contour of the body in the region of the lowest dorsal and highest lumbar vertebrae, as at 6. This
85 positioning will cause the back support to be sufficiently far to the rear of the cut out seat to "anchor" the body in a comfortable and normal sitting position.

Having thus described my invention what I claim is:

1. In a chair, the combination of a saddle seat shaped as an intaglio of the sitting parts of the human body, said seat being inclined downwardly toward the rear end thereof, 95
back supporting posts secured to said seat at the rear edge thereof, said posts being inclined rearwardly from the vertical at an angle of substantially eight and one-half degrees, the center line of said posts being sub- 100

stantially on a line with the rear edge of the carved portion of said seat, a concaved back support having an upwardly curved lower portion extending between said posts, said
5 support being spaced from the seat to permit a portion of the body of the user to extend thereunder.

2. In a chair as set forth in claim 1, wherein the back support is positioned between the shoulder line and the lowest dorsal 10 vertebrae of the user, said support being slightly concave at the shoulder portion.

In testimony whereof I affix my signature.
EVERETT D. WELDON.