AN ORTHOPEDIC CHAIR FOR TREATMENT AND PREVENTION OF SPINAL DISEASES

CLAIM

What is claimed is:

1. A chair comprises a seat and a seat back made of non-resilient materials, in which:

The seat has a shape that matches the natural contours of an occupant's buttocks, thighs, and upper legs, wherein: The seat's concave backward portion connects to the concave lowest portion of the said seat back, creating a dedicated concave zone that contours the occupant's buttocks closely; the seat's concave backward portion has in its center a small hump that contours tightly an occupant's sacrum and coccyx if his buttocks are fitting inside the dedicated concave zone; the seat's forward portion has a wide W-shape that contours the occupant's upper legs: the two concave zones of the seat's W-shaped forward portion contours the back sides of the occupant's upper legs, the very center zone of the seat's W-shaped forward portion is convex and snuggles the occupant's thighs; the seat is inclined backwardly in such a way that, when the occupant intentionally sits on the forward portion of the said seat, his buttocks, pushed by the gravity force of his body, will gradually glide backward and fit themselves into the said dedicated concave zone eventually; the left side and right side of the seat's W-shaped forward portion are convex so that they contour the outer sides of the occupant's upper legs.

The seat back contours the occupant's back, wherein: The seat back's lowest portion is concave to contour the occupant's buttocks; the middle portion that is convex to contour the lumbar vertebrae; the upper portion that is concave to contour the thoracic vertebrae; the left and right edges of the seat back are convex so that the occupant's back cannot bend left or right therefore must stay straight up; the seat back is height-adjustable to ensure that it well contours the occupant's spine; the seat back is positioned in a way that the occupant's back stays at an angle close to verticality, with his upper legs at an angle that is slightly greater than 90 degrees to the body's alignment.

2. The chair according to claim 1, in which the seat and seat back are made of low-resilient, rather non-resilient, materials to make the chair more comfortable to sit on.

CLAIMS:

1. A chair comprising:

a seat having a concave backward portion having a center with a hump contoured to tightly conform to an occupant's sacrum and coccyx, and a forward portion contoured to conform to an occupant's upper legs with a W-shape formed by two concave zones separated by a convex center portion, the concave zones having convex outer sides; and

a seat back joined to the seat at an angle of 90 degrees relative to the seat, having a left edge, a right edge, a concave upper portion, a convex middle portion and a concave lowest portion connected to the concave backward portion of the seat, the concave lowest portion being contoured to conform to the occupant's buttocks, the convex middle portion has a convex middle contoured to conform to the occupant's lumbar vertebrae, the concave upper portion is contoured to conform to the occupant's thoracic vertebrae, and the left edge and right edge of the seat back are convex so that the occupant's back cannot bend left or right;

such that when the occupant sits on the forward portion of the seat, the occupant's buttocks will glide backward and fit into a concave zone formed by the concave lowest portion of the seat back and the concave backward portion of the seat.

2. The chair of claim 1, in which the convex center portion of the W-shaped forward portion of the seat is contoured to conform to the occupant's thighs, and the two concave zones of the W-shaped forward portion of the seat are contoured to conform to the back sides of the occupant's thighs, and the outer sides of the concave zones are contoured to conform to the outer sides of the occupants thighs.

3. The chair of claim 1, in which the seat back is made of a non-resilient material.

4. The chair of claim 1, in which the seat back is made of a low-resilient material.

5. The chair of claim 1, in which the seat is made of a non-resilient material.

6. The chair of claim 1, in which the seat is made of a low-resilient material.