

Title (en)

SEATING DEVICE WITH SPRING FOR THE SEAT

Publication

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Application

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Priority

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Abstract (en)

[origin: US4712835A] PCT No. PCT/DE85/00325 Sec. 371 Date Sep. 12, 1986 Sec. 102(e) Date Sep. 12, 1986 PCT Filed Sep. 20, 1985 PCT Pub. No. WO86/03954 PCT Pub. Date Jul. 17, 1986. A chair, especially for children and teenagers, comprising a seat, a plurality of substantially horizontal legs provided with casters, a supporting frame and a backrest attached to the frame. The supporting frame is disposed close to the floor at a distance determined by the heights of the horizontal legs and the casters. A horizontal support arm is adjustably mounted on the supporting frame for support of the seat through a horizontal shaft pivotably mounted on the support arm and a tiltable seat support member, the seat support member being rotatable about the shaft through a predetermined swivel angle. A spring mechanism is disposed substantially horizontally along a tension axis, and has one end attached to a radial arm secured to the horizontal shaft and the other end to the support arm. The spring mechanism suppresses the tilting of the seat support member when the swivel angle is decreased and stimulates the tilting of the seat support member when the swivel angle is increased. A pre-stressing nut is also provided for prestressing the helical tension spring in order to adjust the swivel angle to a predetermined middle range.

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