

Title (en)
AN IMPROVED MECHANISM FOR ELEVATING SEATS

Title (de)
VERBESSERTE VORRICHTUNG ZUM HÖHENVERSTELLEN VON SITZEN

Title (fr)
MECANISME AMELIORE PERMETTANT A DES SIEGES DE SE SOULEVER

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Abstract (en)
[origin: WO9852509A1] A seat pivots about a transverse horizontal axis set back from its forward edge, a footrest means is dependent by suitable linkages or other means from a point or points adjacent to the forward edge of the seat. When the seat is horizontal the footrest is elevated above the floor level; when the seat tilts about its axis the footrest descends to the floor as the rear of the seat rises to assist the user to rise. Motion as above results from one or more of the following: (i) torque from the resultant of the occupant's weight distributed on the seat; (ii) part of the occupant's weight acting on the footrest; (iii) applicable to moving armrests only, net force applied to armrests; (iv) additional input force applied by an attendant. The seat can be equipped with a backrest together with fixed or moving arms. The backrest can optionally be reclined or, according to variant, linked with a legrest or adaption of the footrest which elevates. Alternatively independent leg support mechanisms may be preferred. The mechanism is equally suited to the use with powered actuator means. The entire assembly must necessarily be mounted within a suitable framework which may be static or wheeled, rigid or folding, to serve as a chair, toilet frame, commode, vehicle seat, or any other form of seating. Or, when the ranges of adjustment and movements are sufficient, bed, stretcher and/or stand-up wheelchair.

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