

Title (en)
SYNCHRONOUS CHAIR MECHANISM AND CHAIR HAVING ONE SUCH

Title (de)
SYNCHRONSTUHLMECHANIK UND STUHL MIT EINER SOLCHEN

Title (fr)
MÉCANISME SYNCHRONISÉ POUR CHAISE ET CHAISE COMPRENANT UN TEL MÉCANISME

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Application
EP 17790728 A 20171017

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Abstract (en)
[origin: WO2018073222A1] A synchronous chair mechanism (10) for simultaneously altering a seat and a backrest of a chair from a zero position, in which the backrest has been tilted to a minimum extent in relation to the seat, into an end position, in which the backrest has been tilted to a maximum extent in relation to the seat, comprises a base (20), which can be connected to a substructure provided for setting up. It also comprises a backrest carrier (30), on which the backrest can be fitted, a seat carrier (40), which is designed for accommodating a seat, and a spring element (8) having a front end and a rear end. The backrest carrier (30) is mounted on the base (20) such that it can be pivoted about a first axis of rotation (710). The seat carrier (40) is connected in an articulated manner to the backrest carrier (30) for movement about a second axis of rotation (720) and to the front end of the spring element (80) for movement about a third axis of rotation (730). The rear end of the spring element (80) is articulated on the backrest carrier (30) for movement via a fourth axis of rotation (740). A latching structure (310) is formed on the backrest carrier (30). The synchronous chair mechanism (10) comprises a sliding coupling piece (60), which is fitted at the rear end of the spring element (80) such that it can be pivoted about the fourth axis of rotation (740). Outside the zero position of the synchronous chair mechanism (10), the sliding coupling piece (60) engages in the latching structure (310) of the backrest carrier (30), and therefore the sliding coupling piece (60) and the backrest carrier (30) are connected to one another in a fixed position. In the zero position of the synchronous chair mechanism (10), the sliding coupling piece (60) has been uncoupled from the latching structure (310) of the backrest carrier (30), and therefore the sliding coupling piece (60) can be moved in relation to the latching structure (310), as a result of which it is possible to alter a distance between the fourth axis of rotation (740) and the first axis of rotation (710).

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