

Title (en)
A DRIVE MECHANISM FOR ELEVATING AND LOWERING A TABLETOP

Title (de)
ANTRIEBSMECHANISMUS ZUM HERAUF- UND HERABFAHREN EINER TISCHOBERFLÄCHE

Title (fr)
MECANISME D'ELEVATION ET D'ABAISSEMENT D'UN PLATEAU DE TABLE

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Application
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Priority

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Abstract (en)
[origin: WO2006048023A1] A drive mechanism has a reversible electric motor, which can be short-circuited to stop the rotation of the motor. Hereby higher precision can be achieved. A magnetic brake has a rotor, which has one or more neutral angular positions relative to the stator. A controller controls the motor and calculates the height of the tabletop based on the rotation of the rotor, and a sensor gives a signal when the rotor is in a predetermined angular position different from the neutral position. The magnetic forces between the stator and the rotor prevent the rotor from reaching the predetermined angular position, when the tabletop is loaded with a load that does not exceed a nominal table-to load. Such a brake exerts a torque that is independent of motor speed and is particularly suited for preventing the tabletop from being lowered due to either its own weight or to a load on the tabletop.

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