

Title (en)

Calibration of the current to pinching force of an electric window with spring-tensioned cables

Title (de)

Kalibrierung des Verhältnisses zwischen Strom und Einklemmkraft eines elektrischen Fensterhebers mit federgespannten Kabeln

Title (fr)

Calibrage du rapport entre l'intensité d'un courant et la force de pincement dans un lève-vitre électrique à câbles tendus par un ressort

Publication

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Application

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Priority

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Abstract (en)

[origin: EP1271739A1] The characteristic magnitude of the electric motor is the value of its supply current. The current variation (DELTA I2) is measured between a minimum value (Im) and the value (Io) at the start of a stabilized phase. The force (F), applied by springs (8a,8b) due to stretching (DELTA z) caused by current between (Im) and (Io), is measured by application of $F = k \times \text{DELTA } z$, where DELTA z is determined from the angle of rotation of the motor. <??>Method of calculating the relation K between motor (2) supply current variation driving a kinematic chain designed to displace a part (7) with respect to a support and the variation of the force applied by the motor on the moving part. The kinematic chain includes spring (8,8b) tensioned cables (5) having a known stiffness (k).

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