

Title (en)

ELECTROMECHANICAL BRAKE WITH SELF-BOOSTING AND ADJUSTABLE WEDGE ANGLE

Title (de)

ELEKTROMECHANISCHE BREMSE MIT SELBSTVERSTÄRKUNG UND VERÄNDERLICHEM KEILWINKEL

Title (fr)

FREIN ELECTROMECHANIQUE AVEC AMPLIFICATION AUTOMATIQUE ET ANGLE D'ATTAQUE VARIABLE

Publication

**EP 1389282 A1 20040218 (DE)**

Application

**EP 02740610 A 20020516**

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Abstract (en)

[origin: WO02095255A1] The invention relates to an electromechanical brake comprising an electrical actuator producing an actuation force and acting upon at least one frictional member in order to press said member to elicit a frictional force against a rotational component of the brake that is to be stopped. A self-boosting device is arranged between the frictional member and the electrical actuator, said device serving to self-boost the actuation force produced by the electrical actuator and comprising at least one wedge (12), which has a wedge surface (14) arranged at an edge angle  $\alpha$  and is supported on a corresponding counter bearing (16). When the brake is actuated, the electrical actuator displaces the wedge (12) relative to the counter bearing (16) in a direction of actuation (x) in order to press the frictional member against the component of the brake to be stopped. In order to achieve a high degree of self-boosting and short actuation paths, the wedge angle  $\alpha$  is constant in a first segment (18) of the wedge surface (14), which is active at the beginning of brake actuation, and smaller than the first segment (18) in a second segment (20) adjacent to the first segment (18).

IPC 1-7

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Citation (search report)

See references of WO 02095255A1

Cited by

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