

BRAKE, IN PARTICULAR FOR A DRIVE OF A HOIST

ABSTRACT OF THE DISCLOSURE

A brake for a hoist, includes a brake disk and a magnetic filed which is aligned transversely to the brake disk and generates a reactive force which inhibits a movement of the brake disk and is dependent on the rotation speed of the brake disk as well as a radial distance from the rotation axis. The magnetic field is formed by two magnetic poles arranged on both sides of the brake disk. A cost-efficient, compact and wear-resistant brake which operates in dependence on the rotation direction and is applicable in particular for a drive of a hoist, with the drive including a motor without generator-produced torque and/or with greatly load-dependent rotational speed, and a self-locking gear mechanism, can be implemented in such a manner that both magnetic poles are movable by the reactive force along a predetermined path from a rest position in opposition to a return force of an elastic member in rotation direction, wherein the radial distance is preset during movement along the path by a desired course of the rotation direction dependent and rotational speed dependent braking force and adjustable by the return force of the elastic member.

Fig. 1