Title (en)

ELEVATOR DEVICE

Title (de)

AUFZUGSVORRICHTUNG

Title (fr)

DISPOSITIF ASCENSEUR

Publication

EP 2537790 A1 20121226 (EN)

Application

EP 10846115 A 20100219

Priority

JP 2010052519 W 20100219

Abstract (en)

There is provided an elevator device in which the braking capability of a braking device can be measured while the car is being stopped. For this purpose, the elevator device comprising a driving device for driving the up-and-down movement of a car and a counterweight; a main rope that is wound on a sheave of the driving device and hangs the car and counterweight; the braking device for braking the sheave; and a control device for controlling these devices is characterized in that the elevator device includes an encoder for detecting the number of rotation of the sheave; and a brake that is provided in the braking device and has a brake coil that attracts a shoe when being supplied with electric current, and the control device carries out control to change over the operation mode; stops the car by means of the braking device in the state in which the weight is unbalanced between the car side and the counterweight side when the operation mode of elevator is a braking capability checking operation mode; controls the attraction current supplied to the brake coil to gradually release the brake of the braking device; measures the braking capability of the braking device based on the value of attraction current at the time of the start of car movement that is detected via the encoder; and judges that the braking capability of the braking device is abnormal if the braking capability deviates from a predetermined standard.

IPC 8 full level

B66B 5/00 (2006.01)

CPC (source: EP KR)

B66B 1/32 (2013.01 - KR); **B66B 5/0037** (2013.01 - EP); **B66B 5/02** (2013.01 - KR)

Cited by

DE102016104408B4; EP3138801A1; US11293951B2; US11059697B2; DE112017007670B4; EP3705440A1; WO2016162391A1; WO2016085855A1; US10745239B2; US11897725B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

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