

Title (en)

METHOD FOR CONTROLLING A DRIVE MOTOR OF A LIFT SYSTEM

Title (de)

VERFAHREN ZUM STEUERN EINER ANTRIEBSMASCHINE EINER AUFZUGSANLAGE

Title (fr)

PROCÉDÉ DE COMMANDE D'UNE MACHINE D'ENTRAÎNEMENT D'UN SYSTÈME D'ASCENSEUR

Publication

EP 2614027 B1 20150121 (DE)

Application

EP 11752234 A 20110906

Priority

- EP 10175981 A 20100909
- EP 2011065345 W 20110906
- EP 11752234 A 20110906

Abstract (en)

[origin: WO2012032020A1] In a method for controlling a drive motor (8) of an elevator system (1), in which method an elevator car (3) can be moved along a travel path by the drive motor (8) via a traction sheave (9) and at least one flexible support means (5) and can be stopped at stop positions (18) of a plurality of stops (7), a movement of the elevator car (3) can be detected by an elevator control unit (10) on the basis of signals from a rotary encoder (12) coupled to a rotary movement of the drive motor (8) or of the traction sheave (9), before the start of travel of the elevator car (3) a movement curve in the form of a distance/speed profile (20.1, 20.2, 20.6, 20.7) for travel of the elevator car (3) from a current elevator car position to a target stop position is calculated, in the calculation of the distance/speed profile (20.1, 20.2, 20.6, 20.7) a slippage to be expected between the traction sheave (9) and the support means (5) is taken into account, and during the travel of the elevator car (3) a rotary movement of the drive motor (8) and thus of the traction sheave (9) is controlled by the lift control unit (10) depending upon the calculated distance/speed profile (20.1, 20.2, 20.6, 20.7) and upon signals from the rotary encoder (12).

IPC 8 full level

B66B 1/30 (2006.01); **B66B 1/24** (2006.01); **B66B 1/28** (2006.01); **B66B 1/34** (2006.01)

CPC (source: EP US)

B66B 1/24 (2013.01 - US); **B66B 1/285** (2013.01 - EP US); **B66B 1/30** (2013.01 - US); **B66B 1/302** (2013.01 - US); **B66B 1/3492** (2013.01 - EP US)

Cited by

US10906775B2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012032020 A1 20120315; AU 2011298833 A1 20130228; AU 2011298833 B2 20170119; BR 112013004410 A2 20160517; BR 112013004410 B1 20210420; CN 103097272 A 20130508; CN 103097272 B 20141231; EP 2614027 A1 20130717; EP 2614027 B1 20150121; US 2012222917 A1 20120906; US 8863908 B2 20141021

DOCDB simple family (application)

EP 2011065345 W 20110906; AU 2011298833 A 20110906; BR 112013004410 A 20110906; CN 201180043330 A 20110906; EP 11752234 A 20110906; US 201113224641 A 20110902