

Title (en)
SPEED GOVERNOR FOR ELEVATOR

Title (de)
GESCHWINDIGKEITSREGLER FÜR EINEN AUFZUG

Title (fr)
RÉGULATEUR DE VITESSE POUR ASCENSEUR

Publication
EP 2617672 A4 20180124 (EN)

Application
EP 10857275 A 20100917

Priority
JP 2010066126 W 20100917

Abstract (en)
[origin: EP2617672A1] Provided is an elevator governor capable of realizing, with a simple configuration, an overspeed detection mechanism to which rotation dependence is added while preventing a decrease in reliability due to the generation of vibrations and noises and the wear of parts. For this purpose, the elevator governor includes: a sheave which changes the rotation speed in one direction in response to the ascent speed of an ascending and descending body and changes the rotation speed in the other direction in response to the descent speed of the ascending and descending body; a fly-weight which increases and decreases an outward moving quantity to a radial outer side of the sheave in response to an increase and decrease in the rotation speed of the sheave; a detector which performs overspeed detection of the sheave when the fly-weight has moved to the radial outer side by a predetermined quantity; a stopper which prevents the fly-weight from moving to the radial outer side more than the predetermined quantity in the case where the sheave rotates in a predetermined direction; rotational position detection means which detects a rotational position of the sheave; object detection means which detects the stopper in the case where the stopper has approached the object detection means; and determination means which determines a position of the stopper with respect to the sheave on the basis of the rotational position of the sheave during the detection of the stopper by the object detection means.

IPC 8 full level
B66B 5/04 (2006.01)

CPC (source: EP KR)
B66B 5/04 (2013.01 - KR); **B66B 5/044** (2013.01 - EP)

Citation (search report)

- [A] JP 2000327241 A 20001128 - MITSUBISHI ELECTRIC CORP
- [A] WO 2010023745 A1 20100304 - MITSUBISHI ELECTRIC CORP [JP], et al
- See references of WO 2012035641A1

Cited by
JP2021187574A; US11034546B2

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 SE SI SK SM TR

DOCDB simple family (publication)
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EP 10857275 A 20100917; CN 201080069067 A 20100917; JP 2010066126 W 20100917; JP 2012533795 A 20100917; KR 20137009709 A 20100917