

Title (en)

ELEVATOR DOOR CONTROL DEVICE AND ELEVATOR DOOR DRIVE SYSTEM

Title (de)

AUFZUGSTÜRSTEUERUNGSVORRICHTUNG UND AUFZUGSTÜRANTRIEBSSYSTEM

Title (fr)

DISPOSITIF DE COMMANDE DE PORTE D'ASCENSEUR ET SYSTÈME D'ENTRAÎNEMENT DE PORTE D'ASCENSEUR

Publication

EP 3683181 A4 20210908 (EN)

Application

EP 18854081 A 20180511

Priority

- JP 2017173774 A 20170911
- JP 2018018401 W 20180511

Abstract (en)

[origin: EP3683181A1] An elevator door control device that provides both a speed following performance and a vibration suppression performance at the same time and ensures safety, and an elevator door drive system using the same are provided. The elevator door control device outputs a control command to drive a door mechanism disposed on a car (103) corresponding to a target command for a door operation state, and includes a controller (108) and an optimal controller (113). The controller (108) generates the control command corresponding to a control input. The optimal controller (113) has an evaluation index to evaluate the door operation state and the control input together, computes the control input to optimize the evaluation index, and outputs the computed control input to the controller.

IPC 8 full level

B66B 13/14 (2006.01)

CPC (source: EP)

B66B 13/143 (2013.01)

Citation (search report)

- [XYI] EP 1713711 A2 20061025 - KONE CORP [FI]
- [Y] WO 2014199688 A1 20141218 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2019049424A1

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)

EP 3683181 A1 20200722; EP 3683181 A4 20210908; CN 110914185 A 20200324; CN 110914185 B 20220429; JP 2019048697 A 20190328; JP 7012488 B2 20220128; WO 2019049424 A1 20190314

DOCDB simple family (application)

EP 18854081 A 20180511; CN 201880047343 A 20180511; JP 2017173774 A 20170911; JP 2018018401 W 20180511