

Title (en)
ELEVATOR CONTROL APPARATUS

Title (de)
AUFZUGSTEUERVORRICHTUNG

Title (fr)
APPAREIL DE COMMANDE D'ASCENSEUR

Publication
EP 2345615 B1 20140806 (EN)

Application
EP 08878101 A 20081112

Priority
JP 2008070559 W 20081112

Abstract (en)
[origin: EP2345615A1] An elevator control apparatus which performs velocity control by using a model arithmetic operation part is capable of high-following-capability control by predicting the inertia value of a control target. An elevator control apparatus (110) includes an inertia error prediction unit (80A). A first arithmetic operation part (81a) calculates a pre-convergent inertia error (intermediate value) based on integral arithmetic operation of a velocity deviation between a model velocity (\dot{E}_A) and an actual velocity (\dot{E}_M) of a period where an acceleration build-up state and a constant acceleration state of an elevator car are consecutive, and outputs the pre-convergent inertia error to a second arithmetic operation part (82a). The second arithmetic operation part (82a) predicts a post-convergent inertia error based on the intermediate value output from the first arithmetic operation part (81). Based on the post-convergent inertia error predicted by the second arithmetic operation part (82a), a parameter correction unit (90) corrects an inertia value (J_A) preset in a model arithmetic operation unit (30).

IPC 8 full level
B66B 1/30 (2006.01); **B66B 1/24** (2006.01); **B66B 1/28** (2006.01); **H02P 29/00** (2016.01)

CPC (source: EP KR)
B66B 1/285 (2013.01 - EP); **B66B 1/30** (2013.01 - EP KR); **B66B 1/34** (2013.01 - KR)

Cited by
EP2522612A1

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2345615 A1 20110720; **EP 2345615 A4 20140101**; **EP 2345615 B1 20140806**; CN 102209677 A 20111005; CN 102209677 B 20140319; JP 5334985 B2 20131106; JP WO2010055555 A1 20120405; KR 101263568 B1 20130513; KR 20110063522 A 20110610; WO 2010055555 A1 20100520

DOCDB simple family (application)
EP 08878101 A 20081112; CN 200880131909 A 20081112; JP 2008070559 W 20081112; JP 2010537624 A 20081112; KR 20117007874 A 20081112