

Title (en)
DOUBLE DECK ELEVATOR

Title (de)
DOPPELDECKERAUFZUG

Title (fr)
ASCENSEUR À DOUBLE PONT

Publication
EP 2692676 A4 20141119 (EN)

Application
EP 11861995 A 20110328

Priority
JP 2011001808 W 20110328

Abstract (en)
[origin: EP2692676A1] There is provided a double deck elevator that is capable of adjusting floor displacement levels of the upper and lower cages to reduce the floor level difference by selecting either the main frame or the upper and lower cages or both to be moved depending on conditions of the respective floor displacement levels of the upper and lower cages. In order to implement the present invention, the double deck elevator according to the present invention compares whether at least one of cage-doorway floor-displacement levels detected by upper- and lower-cages' detection sensors is equal to or larger than a threshold value; performs calculations, when either floor-displacement level is determined to be equal to or larger than the threshold value, by substituting the respective floor displacement levels of the two upper and lower cages successively into a plurality of conditions for correcting the floor displacement levels; and selects, when a relevant condition among the plurality of conditions holds true from the calculation result, either the main traction unit or the cage-position adjusting drive unit or both of the main traction unit and the cage-position adjusting drive unit to be actuated, according to the relevant condition.

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CPC (source: EP KR)
B66B 1/06 (2013.01 - KR); **B66B 1/42** (2013.01 - KR); **B66B 1/425** (2013.01 - EP); **B66B 11/022** (2013.01 - EP)

Citation (search report)
• [XI] WO 2004087552 A1 20041014 - KONE CORP [FI], et al
• See references of WO 2012131755A1

Cited by
US9783391B2

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

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EP 11861995 A 20110328; CN 201180069620 A 20110328; JP 2011001808 W 20110328; JP 2013506820 A 20110328; KR 20137028152 A 20110328