

Title (en)  
ELEVATOR GROUP MANAGEMENT AND CONTROL DEVICE

Title (de)  
AUFZUGSGRUPPENMANAGEMENT- UND -STEUERVORRICHTUNG

Title (fr)  
DISPOSITIF DE GESTION ET DE CONTROLE D UN GROUPE D ASCENSEURS

Publication  
**EP 1873106 A4 20121107 (EN)**

Application  
**EP 05734735 A 20050421**

Priority  
JP 2005007610 W 20050421

Abstract (en)  
[origin: EP1873106A1] An elevator group-management-control device is provided in which the device selects an elevator car, taking into account the number of floors that the elevator car skips and a passenger's walking time, when a call-register device is placed away from an elevator lobby. The elevator group-management-control device includes: a walking-time estimating means 9 for estimating a walking time for a passenger to walk to the elevator lobby; a predictive calculating means 10 for predictively calculating a time until each elevator car 2 arrives at the lobby; a waiting-time conversion means 11 for converting into an actual waiting time or a lost time the difference between the predicted time until the elevator car 2 arrives, calculated predictively by the predictive calculating means 10, and the estimated actual waiting time; an evaluation-value calculating means 12 for calculating an evaluation value that increases with increase in the actual waiting time or the lost time; an assigning means 13 for determining, as an assigned elevator car, an elevator car for which evaluation value has been calculated to be minimum, by the evaluation-value calculating means 12; an operation control means 15 for instructing the assigned elevator car to move to the floor from which the call has been registered; and a door opening/closing means 14 for keeping open the door 2 of the elevator car assigned until the estimated walking time has elapsed after it is opened.

IPC 8 full level  
**B66B 1/18** (2006.01); **B66B 1/24** (2006.01); **B66B 13/14** (2006.01)

CPC (source: EP)  
**B66B 1/2408** (2013.01); **B66B 1/2458** (2013.01); **B66B 2201/102** (2013.01); **B66B 2201/211** (2013.01); **B66B 2201/232** (2013.01)

Citation (search report)

- [XY] US 2005029054 A1 20050210 - MATELA MIKA [FI]
- [IY] JP S6019673 A 19850131 - MITSUBISHI ELECTRIC CORP
- [Y] JP S5355847 A 19780520 - MITSUBISHI ELECTRIC CORP
- [Y] JP S61136883 A 19860624 - MITSUBISHI ELECTRIC CORP
- [A] US 4685538 A 19870811 - KAMAIKE HIROSHI [JP]
- See references of WO 2006114877A1

Cited by  
CN105366458A; JP2018118829A; EP2891620A1; EP2597063A1; CN103974889A; EP2261160A4; US10207893B2; US8567569B2; WO2015049414A1; WO2013076080A1; US9469500B2; EP1988046B1; EP2544981B1

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DOCDB simple family (application)  
**EP 05734735 A 20050421**; CN 200580038255 A 20050421; JP 2005007610 W 20050421; JP 2006519001 A 20050421