

Title (en)  
ELEVATOR DOOR CONTROL DEVICE

Title (de)  
STEUERVORRICHTUNG FÜR AUFZUGTÜR

Title (fr)  
DISPOSITIF DE COMMANDE DE PORTES D'ASCENSEUR

Publication  
**EP 1544151 A4 20071128 (EN)**

Application  
**EP 03798458 A 20030924**

Priority  
• JP 0312155 W 20030924  
• JP 2002283691 A 20020927

Abstract (en)  
[origin: EP1544151A1] An elevator door control device is provided in which the precision of abnormality detection in door opening and closing operations is increased by appropriately detecting abnormalities in torque commands, so that there is little erroneous detection of abnormalities in door opening and closing operations. The elevator door control device has: a speed command portion that outputs a speed command; a speed control portion that outputs a torque command corresponding to a deviation between the speed command and a feedback speed; a reference torque command pattern storage portion that stores a plurality of torque command patterns that are formed by a plurality of the torque commands sampled according to door opening and closing operations, and stores a reference torque command pattern that is obtained based on the torque commands at each common sampling of the plurality of torque commands; an abnormality detection torque pattern generator portion that generates an abnormality detection torque pattern from the reference torque command pattern; and an abnormality avoiding unit that outputs an abnormality avoiding command to the speed command portion when the torque command exceeds the abnormality detection torque pattern. <IMAGE>

IPC 1-7  
**B66B 13/14**

IPC 8 full level  
**B66B 13/14** (2006.01)

CPC (source: EP KR)  
**B66B 13/14** (2013.01 - KR); **B66B 13/146** (2013.01 - EP)

Citation (search report)  
• [X] JP H08259154 A 19961008 - FUJITEC KK  
• [X] JP H09323877 A 19971216 - MITSUBISHI ELECTRIC CORP  
• [AD] JP S54120157 A 19790918 - HITACHI LTD  
• [A] EP 0976675 A1 20000202 - INVENTIO AG [CH]  
• See references of WO 2004028950A1

Cited by  
JP2020132293A; EP3392189A1; US10280042B2

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 1544151 A1 20050622; EP 1544151 A4 20071128; EP 1544151 B1 20160203**; CN 100355642 C 20071219; CN 1617825 A 20050518; JP 4443411 B2 20100331; JP WO2004028950 A1 20060119; KR 100930774 B1 20091209; KR 20050044650 A 20050512; KR 20070045314 A 20070502; TW 200408603 A 20040601; TW I231802 B 20050501; WO 2004028950 A1 20040408

DOCDB simple family (application)  
**EP 03798458 A 20030924**; CN 03802389 A 20030924; JP 0312155 W 20030924; JP 2004539502 A 20030924; KR 20047008462 A 20040603; KR 20077005282 A 20030924; TW 92126435 A 20030925