

Title (en)  
ELEVATOR DOOR CONTROLLER

Title (de)  
STEUERUNG FÜR AUFZUGTÜR

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

Publication  
**EP 1544152 A4 20071128 (EN)**

Application  
**EP 03798459 A 20030924**

Priority  
• JP 0312156 W 20030924  
• JP 2002283701 A 20020927

Abstract (en)  
[origin: EP1544152A1] An elevator door control device capable of setting an appropriate door velocity, where the door velocity is made faster, or the door opening and closing time is made shorter, in a range that can comply with kinetic energy restrictions is achieved. The elevator door control device performs elevator door opening and closing control by outputting a torque command to an elevator door driving unit, the torque command corresponding to a motor speed pattern selected from a plurality of motor speed patterns. The kinetic energy of the door is computed at each floor based on the mass of the elevator door at each floor and based on door velocity information during door opening and closing operations. One out of the plurality of motor speed patterns is selected as the motor speed pattern at each floor based on the computational results. <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)  
• [XD] JP 2000159461 A 20000613 - MITSUBISHI ELECTRIC CORP  
• [E] WO 2004021094 A1 20040311 - SIEMENS AG [DE]  
• [A] EP 0676526 A1 19951011 - OTIS ELEVATOR CO [US]  
• See references of WO 2004028951A1

Cited by  
EP1922278A4; DE112007003699B4; CZ304108B6; EP2690051A4; DE102013204925A1; DE102013204925B4; US7637355B2; WO2007028850A1

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 1544152 A1 20050622; EP 1544152 A4 20071128; EP 1544152 B1 20120208**; CN 100390042 C 20080528; CN 1617826 A 20050518; JP 4488210 B2 20100623; JP WO2004028951 A1 20060119; KR 20050044626 A 20050512; TW 200410891 A 20040701; TW I231289 B 20050421; WO 2004028951 A1 20040408

DOCDB simple family (application)  
**EP 03798459 A 20030924**; CN 03802390 A 20030924; JP 0312156 W 20030924; JP 2004539503 A 20030924; KR 20047008337 A 20040531; TW 92126441 A 20030925