

Title (en)

Device for supervising the access zone of elevators and moving walks with high-frequency sensors

Title (de)

Einrichtung zur Vorraumüberwachung für Fahrtreppen und Fahrsteige mit Hochfrequenz-Sensoren

Title (fr)

Dispositif de surveillance de la zone d'accès d'escaliers mécaniques et trottoirs roulants avec des détecteurs à haute fréquence

Publication

EP 1541519 B1 20080123 (DE)

Application

EP 04106258 A 20041203

Priority

- EP 04106258 A 20041203
- EP 03405878 A 20031208

Abstract (en)

[origin: US2005121288A1] Sensing equipment for monitoring the space in front of escalators for the control of the drive has sensors arranged in handrail inlet caps of the escalator balustrades. Each sensor consists of a transmitter and a receiver and operates with high-frequency waves. The sensors monitor the access to the escalator in a specific region in front of the entry to the escalator, for example the region of the entrance plate. On entry into the monitoring region of a sensor the high-frequency waves emitted by the transmitter are reflected by the person or object and picked up by the associated receiver and the escalator drive is switched on.

IPC 8 full level

B66B 25/00 (2006.01); **B66B 31/00** (2006.01); **B66B 1/06** (2006.01); **B66B 23/02** (2006.01); **B66B 27/00** (2006.01); **G01P 13/00** (2006.01); **G01V 3/12** (2006.01)

IPC 8 main group level

B66B (2006.01)

CPC (source: EP KR US)

B66B 23/02 (2013.01 - KR); **B66B 25/00** (2013.01 - EP US); **B66B 27/00** (2013.01 - KR)

Cited by

WO2017129638A1; WO2015090764A1; CN104973492A; CN105967037A; CN105829236A; AU2014365631B2; EP2923989A1; WO2017042006A1; US10294080B2; US9850100B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2005121288 A1 20050609; **US 6988607 B2 20060124**; AT E384683 T1 20080215; AU 2004237788 A1 20050623; AU 2004237788 B2 20101202; BR PI0405448 A 20050830; CA 2489654 A1 20050608; CA 2489654 C 20120522; CN 1626430 A 20050615; DE 502004006030 D1 20080313; EP 1541519 A1 20050615; EP 1541519 B1 20080123; ES 2300711 T3 20080616; HK 1079175 A1 20060331; JP 2005170678 A 20050630; JP 5426061 B2 20140226; KR 101179088 B1 20120907; KR 20050055593 A 20050613; MX PA04012253 A 20050826; MY 139349 A 20090930; PL 1541519 T3 20080630; PT 1541519 E 20080411; RU 2004135839 A 20060520; RU 2356823 C2 20090527; SI 1541519 T1 20080831; ZA 200409385 B 20050928

DOCDB simple family (application)

US 140004 A 20041201; AT 04106258 T 20041203; AU 2004237788 A 20041207; BR PI0405448 A 20041208; CA 2489654 A 20041207; CN 200410096377 A 20041126; DE 502004006030 T 20041203; EP 04106258 A 20041203; ES 04106258 T 20041203; HK 05111102 A 20051206; JP 2004340102 A 20041125; KR 20040101860 A 20041206; MX PA04012253 A 20041207; MY PI20044919 A 20041127; PL 04106258 T 20041203; PT 04106258 T 20041203; RU 2004135839 A 20041207; SI 200430689 T 20041203; ZA 200409385 A 20041122