Title (en)

INTERFERENCE COMPENSATION OPTICALLY SYNCHRONIZED SAFETY DETECTION SYSTEM FOR ELEVATOR SLIDING DOORS

Title (de)

INTERFERENZKOMPENSIERENDES OPTISCH SYNCHRONISIERTES SICHERHEITSMELDESYSTEM FÜR AUFZUGSSCHIEBETÜREN

Title (fr)

SYSTEME DE DETECTION ET DE SECURITE SYNCHRONISE A SYNCHRONISATION OPTIQUE ET A COMPENSATION D'INTERFERENCE POUR LES PORTES COULISSANTES D'ASCENSEURS

Publication

EP 1588397 A4 20151216 (EN)

Application

EP 02792553 A 20021231

Priority

US 0241816 W 20021231

Abstract (en)

[origin: WO2004059692A1] A method for detecting interference energy in a sliding door safety system (10) comprising the steps of disposing at least one emitter (11) along a first vertical surface, disposing at least one receiver (17) corresponding to the at least one emitter along a second vertical surface, activating the at least one receiver, activating the at least one emitter to emit an energy beam (23) comprising a modulated square wave of a predetermined frequency, sampling an energy intensity received by the activated at least one receiver a predetermined number of times recording each time a received energy intensity to form a plurality of recorded energy intensities, selecting the lowest magnitude one of the plurality of recorded energy intensities to form a lowest recorded energy intensity, comparing the lowest recorded energy intensity to a threshold value and determining a source of the energy intensity to be external when the lowest recorded energy intensity is less than the threshold value.

IPC 8 full level

B66B 13/24 (2006.01); **B66B 13/26** (2006.01); **H01J 40/14** (2006.01)

CPC (source: EP KR)

B66B 13/24 (2013.01 - KR); **B66B 13/26** (2013.01 - EP KR); **H01J 40/14** (2013.01 - KR); G01V 8/10 (2013.01 - EP)

Citation (search report)

- [I] US 6279687 B1 20010828 - PUSTELNIAK RICHARD D [US], et al
- [A] WO 0248745 A1 20020620 - PROSPECTS CORP [US]
- See references of WO 2004059692A1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

WO 2004059692 A1 20040715; AU 2002358313 A1 20040722; CN 100524604 C 20090805; CN 1720599 A 20060111; EP 1588397 A1 20051026; EP 1588397 A4 20151216; HK 1087529 A1 20061013; JP 2006512261 A 20060413; JP 4292159 B2 20090708; KR 100956728 B1 20100506; KR 20050091727 A 20050915

DOCDB simple family (application)

US 0241816 W 20021231; AU 2002358313 A 20021231; CN 02830123 A 20021231; EP 02792553 A 20021231; HK 06107473 A 20060703; JP 2004563169 A 20021231; KR 20057011029 A 20021231