

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 A1 20051026 (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.

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**H01J 40/14**

IPC 8 full level  
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**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)

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