

Title (en)  
ESCALATOR HANDRAIL OBSTRUCTION DEVICE WITH SENSORS

Publication  
**EP 0420061 A3 19910605 (EN)**

Application  
**EP 90118194 A 19900921**

Priority  
• US 41486589 A 19890929  
• US 41486689 A 19890929

Abstract (en)  
[origin: EP0420061A2] An elastomeric collar is positioned at the mouth of the escalator handrail reentry housing. The collar will deform when subjected to forces running parallel to the direction of travel of the handrail. Sufficient deformation of the collar will activate a switch which turns the escalator off. If an object enters the reentry housing and becomes lodged therein against the handrail, the forces generated thereby normal to the direction of travel of the handrail will activate a pressure sensor which in turn will turn the escalator off.

IPC 1-7  
**B66B 29/04**

IPC 8 full level  
**B66B 29/04** (2006.01)

CPC (source: EP)  
**B66B 29/04** (2013.01)

Citation (search report)  
• [A] DE 2050139 A1 19710513 - GOODYEAR TIRE & RUBBER  
• [A] CH 362818 A 19620630 - INVENTIO AG [CH]  
• [A] US 4619355 A 19861028 - ADRIAN WILLY [DE], et al  
• [A] US 3934699 A 19760127 - SAITO CHUICHI, et al

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US5465823A; EP0605256A3; NO20181524A1; NO345059B1; EP3309108A1; CN109911751A; US10053337B2; WO9405584A1

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DE FR GB

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**EP 90118194 A 19900921**; AU 6233590 A 19900910; CA 2025625 A 19900918; CN 90108084 A 19900924; DE 69004395 T 19900921; JP 24993190 A 19900919; SU 4831232 A 19900928