

Title (en)  
ESCALATOR WITH STEPS PROVIDING LATERAL SAFETY CONFINEMENTS

Publication  
**EP 0297233 B1 19910619 (DE)**

Application  
**EP 88106275 A 19880420**

Priority  
CH 249087 A 19870701

Abstract (en)  
[origin: JPS6422795A] PURPOSE: To obliquely move a safety frame to a safe position by forming a wedge-shaped recess having a specified shape in the safety frame at the time of loading the safety frame on a rib and applying a stepping force, to close an air gap between a step and a base plate, to eliminated the influence of dust on the step and to preventing the pulling of clothes. CONSTITUTION: The wedge-shaped recesses 12 and 4 of a safety frame 12 made of elastic plastic are extended on the full length of two ribs 12 and 2 positioned in the outermost side of the safety frame 12, and the base plate 5 side of an escalator is completely closed by closing walls 12 and 6. When the ribs 12 and 2 located in the outermost side of the safety frame 12 are pressed or a load is applied, the safety frame 12 of the step is tilted around rotary shafts 12 and 5 belonging to the wedge-shaped recesses 12 and 4. Following this tilting, the safety ribs 12 and 1 of the safety frame 12 are brought into contact with the base plate 5, and an air gap between the base plate 5 and the step is closed. Thus, the pulling of escalator user's clothes into the air gap is prevented.

IPC 1-7  
**B66B 23/12**

IPC 8 full level  
**B66B 29/02** (2006.01); **B66B 23/12** (2006.01); **B66B 29/04** (2006.01)

CPC (source: EP US)  
**B66B 23/12** (2013.01 - EP US)

Cited by  
JP2016016931A; EP1116681A1; US4984672A; EP0386512A1; US5082102A; US5242042A; EP0603643A1; FR2789958A1

Designated contracting state (EPC)  
AT CH DE ES FR GB IT LI

DOCDB simple family (publication)  
**EP 0297233 A1 19890104; EP 0297233 B1 19910619**; AT E64578 T1 19910715; DE 3863315 D1 19910725; ES 2023463 B3 19920116; JP 2563827 B2 19961218; JP S6422795 A 19890125; US 4858745 A 19890822

DOCDB simple family (application)  
**EP 88106275 A 19880420**; AT 88106275 T 19880420; DE 3863315 T 19880420; ES 88106275 T 19880420; JP 16479088 A 19880701; US 21289688 A 19880630