

Title (en)  
WAVEGUIDE SAFETY DEVICE

Title (de)  
WELLENLEITERSICHERHEITSVORRICHTUNG

Title (fr)  
DISPOSITIF DE SECURITE EN GUIDE D'ONDE

Publication  
**EP 1578617 A1 20050928 (FR)**

Application  
**EP 03815118 A 20031229**

Priority  
• FR 0303923 W 20031229  
• FR 0300032 A 20030103

Abstract (en)  
[origin: WO2004062942A1] The inventive safety device comprises a transparent substance layer (4) having a refraction index and a thickness suitable for forming a waveguide and containing at least one type of a photoluminescent product. One of the faces of said waveguide layer is provided with a light-extraction pattern (10) which locally disrupts a waveguide effect.

IPC 1-7  
**B42D 15/00**; **B41M 3/14**; **B41M 3/06**; **G06K 19/06**; **G07D 7/00**; **G07F 7/00**

IPC 8 full level  
**B41M 3/06** (2006.01); **B41M 3/14** (2006.01); **B42D 15/00** (2006.01); **G07D 7/12** (2006.01); **G07D 7/182** (2016.01)

CPC (source: EP US)  
**B41M 3/06** (2013.01 - EP); **B41M 3/144** (2013.01 - EP); **B42D 25/29** (2014.10 - EP); **B42D 25/324** (2014.10 - EP); **B42D 25/328** (2014.10 - EP); **B42D 25/382** (2014.10 - EP); **G07D 7/12** (2013.01 - EP); **G07D 7/181** (2017.04 - EP); **G07D 7/20** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004062942A1

Citation (examination)  
• FR 2822269 A1 20020920 - TEB [FR]  
• EP 0047326 A1 19820317 - IBM [US]  
• US 2003179364 A1 20030925 - STEENBLIK RICHARD A [US], et al  
• US 6002139 A 19991214 - KATAGIRI MASAYUKI [JP]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2849708 A1 20040709**; **FR 2849708 B1 20050311**; EP 1578617 A1 20050928; OA 13016 A 20061110; WO 2004062942 A1 20040729

DOCDB simple family (application)  
**FR 0300032 A 20030103**; EP 03815118 A 20031229; FR 0303923 W 20031229; OA 1200500195 A 20031229