

Title (en)  
Under-ballast damping device for railroads

Title (de)  
Schotterunterseitige Gleisdämpfungsanordnung

Title (fr)  
Amortisseur pour voie ferrée installé en dessous du ballast

Publication  
**EP 1321577 A3 20040407 (EN)**

Application  
**EP 02025275 A 20021113**

Priority  
IT MI20012404 A 20011114

Abstract (en)  
[origin: EP1321577A2] An under-ballast damping device (1), specifically designed for railroads, comprising at least a flat element (2) made of an elastomeric material or a plastics material, comprising a substantially flat top surface (3) and a plurality of bottom ribs (4), defining cross recesses (5) for at least partially engaging therein respective damping section bars (6). <IMAGE>

IPC 1-7  
**E01B 1/00**; E01B 19/00

IPC 8 full level  
**E01B 19/00** (2006.01); **E01B 1/00** (2006.01)

CPC (source: EP)  
**E01B 19/003** (2013.01); **E01B 1/001** (2013.01); **E01B 2204/01** (2013.01)

Citation (search report)

- [XY] FR 91197 E 19680426 - FRANCAIS ISOLANTS
- [X] DE 2751346 A1 19790523 - PHOENIX AG
- [Y] EP 0609729 A1 19940810 - SAAR GUMMIWERK GMBH [DE]
- [A] DE 2947844 A1 19810604 - LANGE KARL HEINZ ING GRAD
- [A] FR 1473337 A 19670317 - FRANCAIS ISOLANTS

Cited by  
KR100757228B1; CN106812029A; CN106835860A; CN110468629A; AT414132B; CN106592343A

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

DOCDB simple family (publication)  
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