

Title (en)
Bollards

Title (de)
Pollern

Title (fr)
Bornes

Publication
EP 0844336 A3 20010307 (EN)

Application
EP 97309361 A 19971120

Priority
• GB 9624405 A 19961123
• GB 9624406 A 19961123

Abstract (en)
[origin: EP0844336A2] A bollard 10, particularly for preventing vehicular access theretofore, has a body 12 fixed at 14 to the ground G. The body 12 is shaped to deflect a vehicle impacting thereon, thus deflecting a direct collision to mitigate the force of the impact on the bollard 10. Another embodiment is described which is a removable bollard. <IMAGE>

IPC 1-7
E01F 15/00; E01F 9/011; E01F 15/04

IPC 8 full level
E01F 9/011 (2006.01); **E01F 9/013** (2006.01); **E01F 9/677** (2016.01); **E01F 15/00** (2006.01)

CPC (source: EP)
E01F 9/677 (2016.02); **E01F 9/681** (2016.02); **E01F 9/685** (2016.02); **E01F 13/12** (2013.01); **E01F 15/003** (2013.01)

Citation (search report)
• [XY] DE 8529466 U1 19851205
• [XA] DE 3505097 A1 19860814 - SCHAEFER HARTMUT, et al
• [X] CH 200952 A 19381115 - WALTER JEAN LOUIS [CH]
• [X] FR 2695419 A1 19940311 - RDB [FR]
• [YA] EP 0571282 A1 19931124 - LEBEC ETS [FR]
• [Y] WO 9621774 A1 19960718 - BERTELS AUGUSTINUS WILHELMUS M [NL]
• [A] GB 2282623 A 19950412 - SEAL BOLDIZSAR EDWARD [GB]
• [A] US 1518678 A 19241209 - SOVEREIGN GEORGE E
• [A] US 2259610 A 19411021 - BRYSON WILL H
• [A] EP 0522279 A1 19930113 - KRONIMUS AG [DE]

Cited by
CN112942153A; FR3062405A1; WO2018218276A1

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

DOCDB simple family (publication)
EP 0844336 A2 19980527; EP 0844336 A3 20010307

DOCDB simple family (application)
EP 97309361 A 19971120