

Title (en)  
Bollard

Title (de)  
Poller

Title (fr)  
Borne

Publication  
**EP 1130167 B1 20060621 (DE)**

Application  
**EP 01105289 A 20010305**

Priority  
DE 10010449 A 20000303

Abstract (en)  
[origin: DE10010449C1] The bollard consists of a foundation sleeve imbedded flush in concrete in the ground, and an upper part fastened to it. A connection part (2) between sleeve (1) and upper part (3) is connected bayonet-like to the sleeve. The connection part has a cross bore (11) with conical wider ends (12), which are continued in opposite conical bores (10) of the upper part, and each contain a clamping cone (4,5). Screws (6) in the clamping cones are tightened by a special tool to lock the connector positively within the bayonet lock (8,9), and so lock the upper part to the sleeve.

IPC 8 full level  
**E01F 9/638** (2016.01); **E01F 9/685** (2016.01); **E01F 15/00** (2006.01)

IPC 8 main group level  
**E01F 9/00** (2016.01)

CPC (source: EP)  
**E01F 9/638** (2016.02); **E01F 9/685** (2016.02); **E01F 15/003** (2013.01)

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

DOCDB simple family (publication)  
**EP 1130167 A2 20010905; EP 1130167 A3 20031022; EP 1130167 B1 20060621**; AT E331085 T1 20060715; DE 10010449 C1 20010523; DK 1130167 T3 20061030; ES 2265368 T3 20070216; PT 1130167 E 20061031; SI 1130167 T1 20070228

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