

Title (en)
Bollard

Title (de)
Poller

Title (fr)
Borne

Publication
EP 1130167 A3 20031022 (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 1-7
E01F 9/011

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)

Citation (search report)
• [A] EP 0176973 A2 19860409 - JOCKEL INGEBORG
• [A] DE 1845138 U 19620118 - VDO SCHINDLING [DE]
• [A] US 3802135 A 19740409 - WEICHENRIEDER E

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