

Title (en)

Fixing system for posts for vertical traffic sign elements and the like

Title (de)

Befestigungssystem für Pfosten für vertikale Verkehrssignalelemente und dergleichen

Title (fr)

Système de fixation pour poteaux pour éléments de panneaux verticaux de signalisation et similaires

Publication

EP 2354313 A1 20110810 (EN)

Application

EP 10382017 A 20100201

Priority

EP 10382017 A 20100201

Abstract (en)

The invention relates to a fixing system comprising an anchoring part (1) inserted in a concrete block (2), with a vertical axial cavity (1 a) for housing a lower end part (4a) of a post (4) and with an upper perimetric rim (1 c), a flange element (6) with a lower plate (6a) that can be screwed to the perimetric rim (1 a) and a clamp (6b) with an attachment part (6c) integral with the lower plate (6a) and two clamping arms (6d, 6e) projecting towards one another from the attachment part (6c) and defining therebetween a tightening passage (6g) in which the post (4) is bound, the lower plate (6b) having a lower through hole (6f) that can surround the lower end part (4a) and the lower through hole (6f) and said tightening passage (6g) having respective cross sections complementary to outer cross sections of respective sections of the post (4) that they surround when the post (4) is inserted in the vertical axial cavity (1 a) of the anchoring part (1).

IPC 8 full level

E01F 9/011 (2006.01); **E04H 12/22** (2006.01)

CPC (source: EP)

E01F 9/681 (2016.02); **E01F 9/685** (2016.02)

Citation (applicant)

- EP 1676960 A1 20060705 - TINTI MORENO [IT], et al
- EP 1911912 A2 20080416 - PFLEIDERER EUROPOLES GMBH & CO [DE]
- JP 2001132272 A 20010515 - HAMA BOWL KK
- JP 2006022495 A 20060126 - SOSAKU KK
- JP 2007297897 A 20071115 - KURASAWA ISAMU, et al
- JP 2009007142 A 20090115 - MITSUBISHI ELEC BUILDING TECHN
- JP 2009068235 A 20090402 - SHINKO ELECTRIC CO LTD
- US 5400997 A 19950328 - PAYNE ROBERT E [US], et al
- US 5625988 A 19970506 - KILLICK ANDREW [AU]
- US 5848502 A 19981215 - SCHAEFER RICHARD FLOYD [US]
- WO 0039402 A1 20000706 - ANI CORP LTD [AU], et al
- GB 2272717 A 19940525 - BEER ROBIN FRANCIS COURTNEY [IE]
- FR 2893957 A1 20070601 - SANEF SA [FR]
- DE 102008045788 A1 20090326 - BARICH LUTZ [DE], et al
- FR 2641557 A1 19900713 - CONCEPT URBAIN [FR]
- FR 1388584 A 19650205
- FR 2836166 A1 20030822 - JURINE SARL [FR]
- JP H06220815 A 19940809 - YANAGI ZAISHIYU
- JP H06173226 A 19940621 - NIPPON KOTSU SANGYO KK, et al
- JP 2004332284 A 20041125 - KAKUDAI KK
- JP 2003106011 A 20030409 - KURASAWA ISAMU, et al
- WO 9949140 A1 19990930 - JEROL OY AB [FI], et al
- WO 2006070788 A1 20060706 - SEKISUI JUSHI KK [JP], et al
- WO 2007125137 A1 20071108 - PAULIZAN 2005 S L U [ES], et al
- FR 2914329 A3 20081003 - OXALIS SARL SARL [FR]
- GB 2431955 A 20070509 - PORTER RICHARD JAMES [GB]
- US 4133125 A 19790109 - LARIOSA OSCAR A
- US 5125194 A 19920630 - GRANGER MARK S [US]
- US 6516573 B1 20030211 - FARRELL KEVIN R [US], et al

Citation (search report)

- [XI] DE 2725057 A1 19781214 - OTTO KNICKENBERG FA
- [A] GB 1526769 A 19780927 - STAINES METAL PROD LTD
- [A] FR 2690731 A1 19931105 - HYDRAULIQUE MECA STE NLE GLE [FR]
- [A] FR 2535361 A1 19840504 - MOUSSEROLLES FONDERIES ATELIER [FR]

Cited by

CN113790419A; CN106836050A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2354313 A1 20110810; EP 2354313 B1 20150610; ES 2546978 T3 20150930; PT 2354313 E 20151020

DOCDB simple family (application)

EP 10382017 A 20100201; ES 10382017 T 20100201; PT 10382017 T 20100201