

Title (en)

Frog with movable point for railway

Title (de)

Herzstück mit beweglicher Spitze für den Gleisbau

Title (fr)

Coeur de croisement à pointe mobile pour voie ferrée

Publication

**EP 1741830 A1 20070110 (FR)**

Application

**EP 06291066 A 20060628**

Priority

FR 0507091 A 20050704

Abstract (en)

The frog has spacer components (63) interposed between projection components (35, 36) and a movable point mounted on a cradle assembly (3). A threaded transverse shank (75) mounted on a bush assembly (81) extends in cross-section through the projection components, the spacers and the movable point. A security shim (83) removably fixes the movable point in a fitting component (12) such that the spacer components are fixed to the projection components in a removable manner.

IPC 8 full level

**E01B 7/14** (2006.01)

CPC (source: EP KR US)

**E01B 7/14** (2013.01 - EP KR US)

Citation (search report)

- [XY] EP 0587517 A1 19940316 - COGIFER [FR]
- [XY] DE 1658316 B1 19700827 - KLOECKNER WERKE AG
- [A] DE 1222957 B 19660818 - CONST J KIHN ATEL
- [DA] EP 1020562 A1 20000719 - COMAGEP [FR]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1741830 A1 20070110; EP 1741830 B1 20170614**; AU 2006202847 A1 20070118; AU 2006202847 B2 20110811; CN 103821041 A 20140528; CN 1891906 A 20070110; ES 2634258 T3 20170927; FR 2887898 A1 20070105; FR 2887898 B1 20090605; KR 101562385 B1 20151021; KR 20070004461 A 20070109; MA 28424 B1 20070201; PL 1741830 T3 20171229; RU 2006123534 A 20080120; RU 2335591 C2 20081010; TW 200722589 A 20070616; TW I336362 B 20110121; UA 91009 C2 20100625; US 2007001060 A1 20070104; US 7740208 B2 20100622

DOCDB simple family (application)

**EP 06291066 A 20060628**; AU 2006202847 A 20060703; CN 200610093432 A 20060704; CN 201410064824 A 20060704; ES 06291066 T 20060628; FR 0507091 A 20050704; KR 20060062549 A 20060704; MA 29156 A 20060703; PL 06291066 T 20060628; RU 2006123534 A 20060703; TW 95123867 A 20060630; UA A200607405 A 20060704; US 47864306 A 20060703