Title (en)

Retractable mast for barriers

Title (de)

Versenkbarer Mast für Absperrvorrichtungen

Title (fr)

Mât escamotable pour barrières

Publication

EP 2450488 A2 20120509 (EN)

Application

EP 11405351 A 20111103

Priority

CH 18552010 A 20101105

Abstract (en)

Retractable mast (1) for barriers, comprising: - at least one fixed element (2) having an upper end (2s) and a lower end (2i), said fixed element (2) extending along a longitudinal axis (a) for a total extension (E); - at least one sliding element (3), having an upper part (3s) and a lower part (3i), said sliding element (3) extending along said longitudinal axis (a) for a total extension (L); - at least one gap (I) between the fixed element (2) and the sliding element (3); said gap (I) being defined from a radial distance (R), measured perpendicular with respect to said longitudinal axis (a), the fixed element (2) and the sliding element (3) being coupled in such a way that the sliding element (3) can translate inside the fixed element (2) along said longitudinal axis (a), from a first position (p1), in which it is housed in the fixed element (2) of portion of at least 70% of its total extension (E) to a second position (p2), in which it is extracted from the fixed element (2) of a portion of at least 50% of its total extension (E). The fixed element (2) has at least one groove (5) and said sliding element (3) has at least one guide pin (7) cooperating with said groove (5), wherein the groove (5) has at least two branches (D1, D2), one branch (D2) of the two (D1, D2) being shorter than the other branch (D1). The retractable mast (1) also has at least one sealing device (15),interposed between the fixed element (2) and the sliding element (3); and the average radial distance (R) is less than 5 mm.

IPC 8 full level

E01F 13/04 (2006.01)

CPC (source: EP)

E01F 13/046 (2013.01)

Citation (applicant)

- US 6345930 B1 20020212 - MOHASSEL PARVIS [US]
- GB 2210091 A 19890601 - BAILEY ERIC CLAUD

Cited by

JP2015151812A; NL2008940C2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2450488 A2 20120509; **EP 2450488 A3 20160831**; CH 704056 A1 20120515; CH 704056 B1 20140715

DOCDB simple family (application)

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