

Title (en)

Locking device for a shaft covering or a road gully

Title (de)

Verschlussvorrichtung für eine Schachtabdeckung oder einen Straßenablauf

Title (fr)

Dispositif de fermeture pour couvercle de logement ou avaloir

Publication

EP 2423391 A3 20150909 (DE)

Application

EP 11175245 A 20110725

Priority

DE 102010037188 A 20100826

Abstract (en)

[origin: EP2423391A2] The closure device (1) has a frame (11) and a closure element (13) that is movable from a closing position into an opening position. A retainer (30) is formed at the frame and forms a hinge-type connection (20) with a pivot axle (21) that is arranged at the closure element. The axle is fastened to the closure element over a spring element (22) as a single piece. A recess is formed at the frame for completely accommodating the spring element in the closing condition of the closure element. A locking pin (42) is formed at the closure element.

IPC 8 full level

E02D 29/14 (2006.01)

CPC (source: EP)

E02D 29/1427 (2013.01); **E02D 29/1463** (2013.01)

Citation (search report)

- [AD] DE 202010000731 U1 20100506 - BERNHARD AMSBECK GMBH & CO KG [DE]
- [A] DE 20321751 U1 20090709 - AHLMANN ACO SEVERIN [DE]
- [A] EP 0853055 A1 19980715 - HSB UMWELTECHNIK GMBH [DE]

Cited by

CN104452818A; EP3348880A1; CN108302246A

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 2423391 A2 20120229; EP 2423391 A3 20150909; EP 2423391 B1 20161116; DE 102010037188 A1 20120301

DOCDB simple family (application)

EP 11175245 A 20110725; DE 102010037188 A 20100826