

Title (en)

MANHOLE COVER FOR SHAFTS, CHANNEL ACCESS OR DRAINAGE CHANNELS

Title (de)

SCHACHTABDECKUNG FÜR SCHÄCHTE, KANALZUGÄNGE ODER ENTWÄSSERUNGSRINNEN

Title (fr)

DISPOSITIF DE FERMETURE DE PUITS, ACCES DE CANAL OU CANIVEAU D'ECOULEMENT DES EAUX

Publication

**EP 3472393 B1 20221130 (DE)**

Application

**EP 17733766 A 20170619**

Priority

- EP 16175328 A 20160620
- EP 2017064927 W 20170619

Abstract (en)

[origin: WO2017220487A1] The invention relates to a shaft cover for shafts, channel entrances, or drainage channels, comprising a reinforcement element (5) and a body (7) made of plastic, said body being connected to the reinforcement element (5). The reinforcement element (5) is designed to rest on a support surface (3) on the shaft, channel entrance, or drainage channel when the shaft, channel entrance, or drainage channel is closed by the shaft cover (1), and the body (7) made of plastic has ribs (9) which run perpendicularly or at an angle of more than 45° relative to the surface (15) surrounding the shaft, channel entrance, or drainage channel when the shaft, channel entrance, or drainage channel is closed.

IPC 8 full level

**E02D 29/14** (2006.01)

CPC (source: EP KR US)

**E02D 29/14** (2013.01 - US); **E02D 29/1472** (2013.01 - EP KR); **E03F 5/0401** (2013.01 - KR)

Citation (examination)

KR 20110127824 A 20111128 - HANYOUNG INC [KR]

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

DOCDB simple family (publication)

**WO 2017220487 A1 20171228**; CN 109312554 A 20190205; EP 3472393 A1 20190424; EP 3472393 B1 20221130; JP 2019522135 A 20190808; JP 7009462 B2 20220125; KR 102402295 B1 20220526; KR 20190019192 A 20190226; US 10851516 B2 20201201; US 2019323199 A1 20191024

DOCDB simple family (application)

**EP 2017064927 W 20170619**; CN 201780038462 A 20170619; EP 17733766 A 20170619; JP 2019518139 A 20170619; KR 20197001873 A 20170619; US 201716311386 A 20170619