

Title (en)

Floor insert for shaft constructions

Title (de)

Bodeneinsatz für Schachtbauwerke

Title (fr)

Plaque de fond pour constructions de puits

Publication

EP 2639368 B1 20190911 (DE)

Application

EP 13156762 A 20130226

Priority

DE 102012203818 A 20120312

Abstract (en)

[origin: EP2639368A1] The bottom insert has a shaft of round shape, having a bottom portion (2). The duct inlet openings are provided in bottom portion in which a pump is arranged. The bottom portion is constructed as a sump pump by inclined wall portions. The fixing devices are provided for machine portions. The bottom insert is configured as a wall-forming lining element and is made of hemispherical formwork (1) with a flat, circular base portion. A vertical mounting wall (3) is formed in the pump sump. The bottom portion and vertical wall are stably fastened by the fixing device, to form stiffened angle. An independent claim is included for method for restoring manhole due to corrosion damage.

IPC 8 full level

E03F 5/22 (2006.01); **E03F 5/02** (2006.01)

CPC (source: EP)

E03F 5/02 (2013.01); **E03F 5/22** (2013.01)

Cited by

CN109610627A; DE102018216235A1; CN113818550A; WO2020064535A1; WO2020240204A1

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)

EP 2639368 A1 20130918; EP 2639368 B1 20190911; DE 102012203818 A1 20130912; DE 102012203818 B4 20150611; DK 2639368 T3 20191216; ES 2758436 T3 20200505; HR P20192201 T1 20200306; SI 2639368 T1 20200131

DOCDB simple family (application)

EP 13156762 A 20130226; DE 102012203818 A 20120312; DK 13156762 T 20130226; ES 13156762 T 20130226; HR P20192201 T 20191206; SI 201331629 T 20130226