

Title (en)

ADJUSTABLE MANHOLE COVER ASSEMBLY

Title (de)

VERSTELLBARE GULLYDECKELANORDNUNG

Title (fr)

ENSEMBLE COUVERCLE DE TROU D'HOMME AJUSTABLE

Publication

**EP 2021550 A1 20090211 (EN)**

Application

**EP 07719870 A 20070530**

Priority

- CA 2007000950 W 20070530
- US 80896606 P 20060530

Abstract (en)

[origin: WO2007137420A1] An adjustable manhole cover frame assembly for mounting on a manhole basin upper section (12 ) has an outer ring (22) and an inner ring (20) engaging the outer ring by screw threads and supporting the manhole cover (10). The lower annular surface of the frame assembly rests on a convexly curved surface (36C) of a metallic adapter (36), which in turn rests on the generally flat surface ( 12A) of the manhole basin upper section (12); this allows the orientation of the frame assembly to be adjusted. Also, the frame assembly itself may have parts which allow its upper part to be adjusted for slope when the lower part of the frame assembly has been fixed. Another feature is a hinge mechanism (16) having a hinge arm (74) connecting two pivots (72,76), and having interlocking means (18) which prevent the hinge side of the cover from being raised when the cover is closed.

IPC 8 full level

**E02D 29/14** (2006.01)

CPC (source: EP US)

**E02D 19/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2007137420A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**WO 2007137420 A1 20071206**; CA 2653849 A1 20071206; DE 202007018310 U1 20080904; EP 2021550 A1 20090211; US 2009241435 A1 20091001

DOCDB simple family (application)

**CA 2007000950 W 20070530**; CA 2653849 A 20070530; DE 202007018310 U 20070530; EP 07719870 A 20070530; US 30285507 A 20070530