

Title (en)

Height compensation device between a manhole cover and a road surface

Title (de)

Vorrichtung zum Höhenausgleich zwischen Schachtabdeckung und Fahrbahnoberfläche

Title (fr)

Dispositif de mise à niveau entre un regard de chaussée et la surface d'une chaussée

Publication

**EP 0953687 A3 20000105 (DE)**

Application

**EP 99108212 A 19990427**

Priority

DE 19819334 A 19980430

Abstract (en)

[origin: EP0953687A2] The manhole cover has a separate upper portion (1) with conical sides, while the diameter of the top of this part of the manhole cover is greater than that of its underside. The top part of the manhole has outward-sloping conical metal sides (2) matching the slope of the sides (3) of the manhole cover. A sealing ring (12) fits into the top of the space (8) between the cover and the manhole sides. This defines the width of the space and height of the cover with respect to the top of the manhole. An inwards-extending flange (5) at the bottom of the support, for the upper part of the cover, has a flexible sealing lip (14).

[origin: EP0953687A2] The manhole cover has a separate upper portion (1) with conical sides, while the diameter of the top of this part of the manhole cover is greater than that of its underside. The top part of the manhole has outward-sloping conical metal sides (2) matching the slope of the sides (3) of the manhole cover. A sealing ring (12) fits into the top of the space (8) between the cover and the manhole sides. This defines the width of the space and height of the cover with respect to the top of the manhole. An inwards-extending flange (5) at the bottom of the support, for the upper part of the cover, has a flexible sealing lip (14).

IPC 1-7

**E02D 29/14**; B66F 19/00

IPC 8 full level

**E02D 29/14** (2006.01)

CPC (source: EP)

**E02D 29/1409** (2013.01)

Citation (search report)

- [A] GB 1186860 A 19700408 - DOVER ENG WORKS LTD
- [A] AT 330099 B 19760610 - PASSAVANT WERKE [DE]
- [A] CH 369075 A 19630430 - VON ROLL AG [CH]
- [A] DE 3920327 A1 19910110 - ERNST ZUERN UNTERNEHMEN FUER I [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 04 30 April 1996 (1996-04-30)

Cited by

DE10329695B4; SG87147A1; AU2003203540B2; EP3556944A1; US11326321B2; DE202019005915U1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0953687 A2 19991103**; **EP 0953687 A3 20000105**; **EP 0953687 B1 20060816**; AT E336620 T1 20060915; DE 19918944 A1 20000120; DE 59913773 D1 20060928

DOCDB simple family (application)

**EP 99108212 A 19990427**; AT 99108212 T 19990427; DE 19918944 A 19990427; DE 59913773 T 19990427