

Title (en)

Hinged manhole cover on a frame

Title (de)

An einem Rahmen scharnierende Schachtabdeckung

Title (fr)

Regard de chaussée à tampon articulé sur un cadre

Publication

EP 0808951 B1 20011128 (FR)

Application

EP 97401139 A 19970523

Priority

FR 9606514 A 19960524

Abstract (en)

[origin: EP0808951A1] The manhole cover, e.g. for a pipe or cable inspection chamber, consists of a surrounding frame (1) and hinged panels (10,11,12,13) which form the lid. The panels are in the form of right-angled triangles hinged to adjoining sides of the frame so that each pair closed to make a square section of the lid. Each of the triangular panels except one, have a lug projecting from its edge which engages with the underside of the edge of an adjacent panel. The final panel with no lug is equipped with a locking mechanism which fixes it to the frame.

IPC 1-7

E02D 29/14

IPC 8 full level

E02D 29/14 (2006.01); **E02D 29/12** (2006.01)

CPC (source: EP)

E02D 29/14 (2013.01); **E02D 29/1427** (2013.01); **E02D 29/1454** (2013.01); **E02D 29/1463** (2013.01)

Citation (examination)

- AU 735571 B2 20010712 - NORINCO
- GB 1536214 A 19781220 - BRITISH STEEL CORP
- US 4266380 A 19810512 - SAMOLIS ALFONSO A
- GB 850105 A 19600928 - RICHARD KIRKPATRICK MATTHEWS
- GB 535621 A 19410416 - CYRIL JOHN HARTLEY
- GB 390806 A 19330410 - CYRIL JOHN HARTLEY
- Norme française NF P 98-050, Octr. 1991

Cited by

FR2872182A1; GB2388864A; EP1277888A1; EP1621679A1; FR2873726A1; EP1580328A3; GB2549561A; GB2549561B; EP1870524A3; GB2388863B; GB2388863A; FR2805292A1; EP1154080A1; EP2246483A1; GB2391245A; GB2391245B; GB2314871B; AU2005321087B2; WO2004007850A1; US8292540B2; US7377141B2; WO2006010835A1; WO2006070191A1; WO2022172002A1; WO2007020398A1; WO2022049401A3

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0808951 A1 19971126; EP 0808951 B1 20011128; EP 0808951 B2 20060830; AR 008602 A1 20000209; AT E209737 T1 20011215; BR 9703311 A 19980915; CN 1091823 C 20021002; CN 1170069 A 19980114; CY 2327 B1 20040206; CZ 156297 A3 19971217; CZ 293860 B6 20040818; DE 69708503 D1 20020110; DE 69708503 T2 20020718; DE 69708503 T3 20070201; DK 0808951 T3 20020402; DK 0808951 T4 20061127; ES 2169327 T3 20020701; ES 2169327 T5 20070301; FR 2749030 A1 19971128; FR 2749030 B1 19980724; HK 1005664 A1 19990122; HR P970286 A2 19980630; ID 17713 A 19980122; IT 1290091 B1 19981019; IT MI970592 A1 19980914; PL 183345 B1 20020628; PL 320155 A1 19971208; PT 808951 E 20020531; RS 49534 B 20061215; SI 0808951 T1 20020630; SI 0808951 T2 20061231; SK 284820 B6 20051201; SK 64497 A3 19980114; UA 45986 C2 20020515; YU 21297 A 19990927

DOCDB simple family (application)

EP 97401139 A 19970523; AR P970102189 A 19970523; AT 97401139 T 19970523; BR 9703311 A 19970523; CN 97113508 A 19970524; CY 0200042 A 20020710; CZ 156297 A 19970521; DE 69708503 T 19970523; DK 97401139 T 19970523; ES 97401139 T 19970523; FR 9606514 A 19960524; HK 98104787 A 19980603; HR P970286 A 19970523; ID 971750 A 19970526; IT MI970592 A 19970314; PL 32015597 A 19970523; PT 97401139 T 19970523; SI 9730285 T 19970523; SK 64497 A 19970522; UA 97052394 A 19970523; YU 21297 A 19970523