

Title (en)  
MANHOLE WITH A T-SHAPED HINGE

Publication  
**EP 0286562 A3 19890301 (FR)**

Application  
**EP 88470005 A 19880401**

Priority  
• FR 8704885 A 19870407  
• FR 8717571 A 19871216

Abstract (en)  
[origin: US4840514A] A manhole assembly includes a circular cover 4 seated in a frame 1 and removably hinged thereto by a T-shaped lug 16 extending radially from the cover and lying within a matingly configured receptacle 5 defined in an upper edge of the frame. Lips 9 overhang opposite interior ends of the deepened receptacle trough 7 to restrain the pivot shaft 18 of the lug against vertical removal with the cover closed, in which position the lug has no contact with the receptacle surfaces to avoid clanking noise upon the passage of a vehicle.

IPC 1-7  
**E02D 29/14**

IPC 8 full level  
**E02D 29/14** (2006.01); **E02D 29/12** (2006.01)

CPC (source: EP US)  
**E02D 29/14** (2013.01 - EP US); **E02D 29/1463** (2013.01 - EP US)

Citation (search report)  
• [A] GB 474250 A 19371028 - CYRIL JOHN HARTLEY  
• [A] US 3130651 A 19640428 - WERNER GEORGE C  
• [A] FR 742942 A 19330318  
• [A] FR 2505967 A1 19821119 - MOIZIEUX ETS METALLURG [FR]

Cited by  
FR2731023A1; EP0796949A1; EP0456958A1; EP0533533A1; FR2681356A1; EP0420777A1; FR2652598A1; DE10046045C1; FR2695951A1; ES2100785A2; EP0391826A1; FR2645190A1; WO0014340A1; EP1910626B2

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0286562 A2 19881012; EP 0286562 A3 19890301; EP 0286562 B1 19920311**; CA 1289800 C 19911001; DE 3868963 D1 19920416; DK 168401 B1 19940321; DK 183288 A 19881008; DK 183288 D0 19880405; ES 2028773 T1 19920716; ES 2028773 T3 19921016; GR 3004123 T3 19930331; IE 60208 B1 19940615; IE 881025 L 19881007; NO 175685 B 19940808; NO 175685 C 19941116; NO 881460 D0 19880406; NO 881460 L 19881010; PT 87156 A 19890512; PT 87156 B 19930930; US 4840514 A 19890620

DOCDB simple family (application)  
**EP 88470005 A 19880401**; CA 563388 A 19880406; DE 3868963 T 19880401; DK 183288 A 19880405; ES 88470005 T 19880401; GR 910401728 T 19920324; IE 102588 A 19880406; NO 881460 A 19880406; PT 8715688 A 19880404; US 17893288 A 19880407