

Title (en)  
Locking device for a manhole cover.

Title (de)  
Sicherungseinrichtung für Schachtabdeckung.

Title (fr)  
Dispositif de verrouillage pour tampon de regard de chaussée.

Publication  
**EP 0176451 A1 19860402 (FR)**

Application  
**EP 85420150 A 19850809**

Priority  
FR 8414229 A 19840912

Abstract (en)  
[origin: US4627249A] A latch has spaced inner and outer plates formed with respective coaxial bores. The outer plate is formed at its bore with at least one notch and the inner plate is formed adjacent its bore with at least two angularly offset and axially extending cutouts. A plug extending through the bores and rotatable therein about the axis has an outer head in the outer bore and accessible from outside the plates and an opposite inner end exposed inward past the inner plate. A locking dog extends radially from the plug in the space between the plates. An inner abutment washer is secured to the inner end of the plug and spaced axially inward of the inner plate and a retaining washer angularly nondisplaceable on the inner end of the plug has a bump engageable in the cutouts of the inner plate. A compression spring braced between the washers urges the bump into the cutouts. A key engageable with the plug head has a radial tab complementary with the notch of the outer plate. The plug with the pawl and retaining washer are angularly displaceable about the axis between a locking position in which the tab and notch can interfit and the bump of the retaining washer engages one of the cutouts of the inner plate and a freeing position in which the tab and notch cannot interfit and the bump of the retaining washer engages the other cutout of the inner plate. A formation on the inner end of the plug is shaped to be engaged for rotation of the plug from inside the inner plate.

Abstract (fr)  
Le verrou du dispositif, d'une part, par sa tête saillant dans la cavité (43), est guidé en rotation par une paroi inférieure (41), espacée d'une paroi supérieure (40) comportant la cavité (43), et est solidaire en rotation d'un panneton (56), apte à pivoter dans l'espace entre les deux parois (40-41) précitées en suivant une trajectoire débouchant hors du tampon, et d'autre part, par sa tige est liée en rotation à une rondelle crantée (58), apte à coopérer avec des rainures de positionnement (50) ménagées dans la face inférieure de la paroi inférieure (41), et constitue support pour un ressort (60) prenant appui sur la rondelle crantée (59) et sur une autre rondelle (61) calée en translation à l'extrémité de la tige du verrou, extrémité munie d'un profil polygonal (55) actionnable par une clé.

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

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

CPC (source: EP US)  
**E02D 29/1427** (2013.01 - EP US); **Y10T 70/5363** (2015.04 - EP US); **Y10T 70/8946** (2015.04 - EP US); **Y10T 292/1085** (2015.04 - EP US)

Citation (search report)  
[A] FR 2374480 A1 19780713 - PASSAVANT WERKE [DE]

Cited by  
CN104781474A; EA019920B1; EP0459150A3

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**EP 85420150 A 19850809**; AT 85420150 T 19850809; CA 488236 A 19850807; DE 3561960 T 19850809; ES 296208 U 19850911; FR 8414229 A 19840912; MA 20732 A 19850813; OA 58678 A 19850912; US 77507985 A 19850912