

Title (en)  
APPARATUS FOR CAPPING A MANHOLE

Publication  
**EP 0420778 B1 19930421 (FR)**

Application  
**EP 90470052 A 19900921**

Priority  
FR 8912938 A 19890929

Abstract (en)  
[origin: EP0420778A1] The apparatus consists of a grille (3) articulated in a frame along an axis for pivoting of the grille (3) corresponding to one of the sides of the latter, this grille (3) being fitted with bars (18) connected together by cross members (19), and in which the grille is divided, along its pivotal axis, into a middle portion (Z1) and two lateral portions (Z2) elastically connected to the middle portion (Z1), one end of the middle portion (Z1), contiguous to the pivotal axis, being intended to bear against a corresponding surface of the frame exerting a moment opposing the movement of the grille (3) about its pivotal axis. <IMAGE>

IPC 1-7  
**E02D 29/14; E03F 5/06**

IPC 8 full level  
**E02D 29/14** (2006.01); **E03F 5/06** (2006.01)

CPC (source: EP)  
**E02D 29/1427** (2013.01); **E03F 5/06** (2013.01); **E03F 2005/061** (2013.01); **E03F 2005/066** (2013.01)

Cited by  
US8192110B1

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

DOCDB simple family (publication)  
**EP 0420778 A1 19910403; EP 0420778 B1 19930421**; AT E88523 T1 19930515; DD 298145 A5 19920206; DD 298146 A5 19920206; DE 69001415 D1 19930527; DE 69001415 T2 19930729; DK 0420778 T3 19930517; ES 2036160 T1 19930516; ES 2036160 T3 19931016; FR 2652606 A1 19910405; FR 2652606 B1 19911213; GR 3007683 T3 19930831; IE 63970 B1 19950628; IE 903496 A1 19910410; NO 177506 B 19950619; NO 177506 C 19971229; NO 904180 D0 19900926; NO 904180 L 19910402; PT 95443 A 19920630; PT 95443 B 19980630

DOCDB simple family (application)  
**EP 90470052 A 19900921**; AT 90470052 T 19900921; DD 34419390 A 19900925; DD 34419490 A 19900925; DE 69001415 T 19900921; DK 90470052 T 19900921; ES 90470052 T 19900921; FR 8912938 A 19890929; GR 920402978 T 19930422; IE 349690 A 19900928; NO 904180 A 19900926; PT 9544390 A 19900927