

Title (en)  
REMOVABLE COVERS AND FRAMES THEREFOR

Publication  
**EP 0031641 B1 19830518 (EN)**

Application  
**EP 80304044 A 19801112**

Priority  
GB 7944480 A 19791228

Abstract (en)  
[origin: EP0031641A2] A manhole cover unit 1 comprises a cover 2 which is seated in a frame 3 to cover over a pit opening 7 the mouth of which is bounded by the frame. To protect the cover 2 against the effect of effluent gases escaping from the pit opening 7 when the unit 1 is used in a sewerage system, a barrier plate 4 is seated on a base flange 10 of the frame 3 so as to extend across the mouth of the pit opening below the cover. The barrier plate 4 is of a material which is resistant to corrosion such as a glass fibre reinforced synthetic plastics. To ensure that effluent gases do not escape past the barrier plate 4, a gasket 5 is bonded around its margin to seal against the base flange 10 on a ledge 12 thereof formed by a rebate 11. The gasket 5 is urged into sealing engagement with the ledge 12 by the weight of the cover 2 when resting on the base flange 10. The cover may have a solid top braced by a honeycomb ribbed structure on its underside. The cover 2 and frame 3 may be of cast iron.

IPC 1-7  
**E02D 29/14**; **E03F 7/00**

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

CPC (source: EP KR)  
**E02D 29/14** (2013.01 - EP KR); **E02D 29/1454** (2013.01 - EP); **E02D 29/1463** (2013.01 - EP); **E02D 29/149** (2013.01 - EP)

Cited by  
ES2179788A1; EP0204278A3; FR2559229A1; US4662777A; US4726707A; ES2642935A1; EP0050928A1; FR2492867A1; WO2017198888A1

Designated contracting state (EPC)  
DE NL

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