

Title (en)  
DEVICE FOR DETERMINING THE POSITION AND DIRECTION OF CHANNEL INLETS AND CHANNEL OUTLETS IN SEWER MANHOLES

Title (de)  
EINRICHTUNG ZUR LAGE- UND RICHTUNGSBESTIMMUNG VON KANALEIN- UND KANALABLUFEN IN ABWASSERSCHÄFTEN

Title (fr)  
DISPOSITIF DE DETERMINATION DE LA POSITION ET DE LA DIRECTION D'ENTRÉES ET DE SORTIES DE CANAUX DANS DES PUITES D'ÉGOUTS

Publication  
**EP 1502077 A1 20050202 (DE)**

Application  
**EP 03729834 A 20030415**

Priority  
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• DE 10218441 A 20020425

Abstract (en)  
[origin: DE10218441C1] The device has a tachymeter (1) and an associated right-angle profile tube (11) provided with internal reflectors (13), supported by a frame (10) attached to the tachymeter. The profile tube projects perpendicularly through a center console (7) and has a tubular extension (23), fitted with telescopic tubes (15), for lowering to a variable depth for viewing the entry and exit runs (5) in the drainage channel (4). The tachymeter with the profile tube rotates through 360 degrees relative to its support tripod (3).

IPC 1-7  
**G01C 15/00**; **G01C 7/06**

IPC 8 full level  
**E02D 29/12** (2006.01); **E03F 5/02** (2006.01); **E03F 7/00** (2006.01); **G01C 1/00** (2006.01); **G01C 15/00** (2006.01)

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Citation (search report)  
See references of WO 03091662A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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