



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
24.05.2006 Bulletin 2006/21

(51) Int Cl.:
E02D 29/14^(2006.01)

(43) Date of publication A2:
28.09.2005 Bulletin 2005/39

(21) Application number: **05102312.5**

(22) Date of filing: **22.03.2005**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR**
Designated Extension States:
AL BA HR LV MK YU

• **FONDERIE VENETE SCOMPARIN S.R.L.**
31100 Treviso (TV) (IT)

(72) Inventor: **Baccarini, Roberto**
16011, Arenzano (IT)

(30) Priority: **24.03.2004 IT PD20040028 U**

(74) Representative: **Modiano, Micaela Nadia et al**
Dr. Modiano & Associati S.p.A.
Via Meravigli 16
20123 Milano (IT)

(71) Applicants:
• **Silmar S.r.l.**
16011 Arenzano GE (IT)

(54) **Manhole cover**

(57) A manhole cover, of the type constituted by a quadrangular frame (11, 111, 211), to which at least two complementary triangular lids (14, 15, 114, 115, 124, 125, 214, 215, 224, 225) are coupled by means of hinges (12, 26). A first lid (14, 114, 214) of the two complementary triangular lids is coupled to a side (13) of the frame (11) by means of a hinge (12) arranged at one of its ver-

tices (17); the second lid (15, 115, 215) is coupled to the same side (13) by means of at least one articulation (16) arranged on its side (18) that is contiguous to the vertex (17) of the first lid (14, 114, 214). A manhole cover thus structured allows an operator to access from three sides the spaces and items arranged beneath the manhole cover.

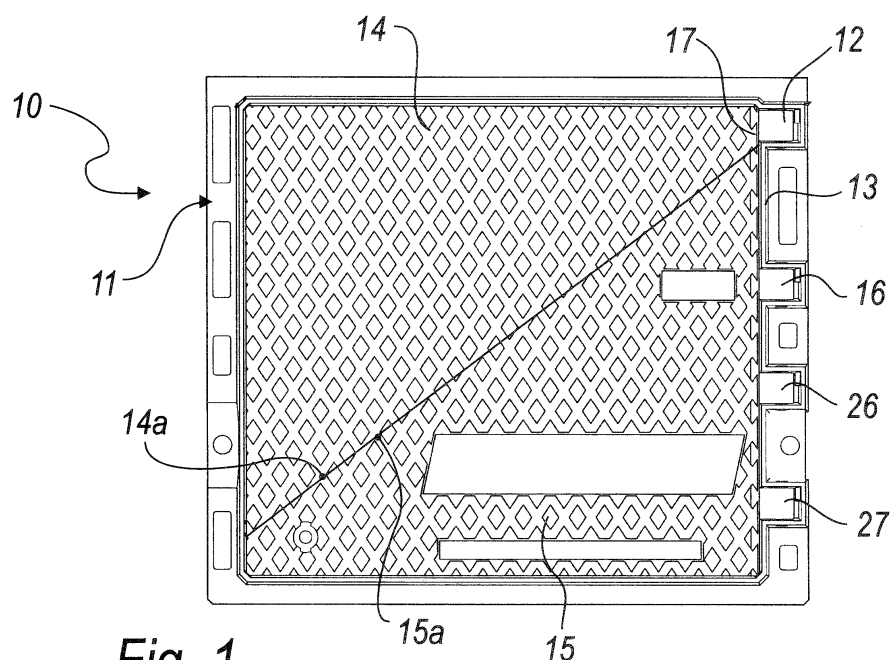


Fig. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 05 10 2312

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	GB 2 391 245 A (* PETER SAVAGE LIMITED) 4 February 2004 (2004-02-04) * page 3, line 17 - page 6, line 14 * * figures 1-3 *	1-3,5-7	INV. E02D29/14
Y	-----	4,8,9	
Y	EP 0 808 951 A (NORINCO) 26 November 1997 (1997-11-26) * abstract *	4	
Y	----- FR 2 812 008 A (F.M.C) 25 January 2002 (2002-01-25) * abstract * * page 6, line 22 - line 25 * -----	8,9	
			TECHNICAL FIELDS SEARCHED (IPC)
			E02D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 March 2006	Examiner Leroux, C
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

7

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 05 10 2312

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-03-2006

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2391245	A	04-02-2004	NONE	

EP 0808951	A	26-11-1997	AT 209737 T	15-12-2001
			BR 9703311 A	15-09-1998
			CN 1170069 A	14-01-1998
			CY 2327 A	06-02-2004
			CZ 9701562 A3	17-12-1997
			DE 69708503 D1	10-01-2002
			DE 69708503 T2	18-07-2002
			DK 808951 T3	02-04-2002
			ES 2169327 T3	01-07-2002
			FR 2749030 A1	28-11-1997
			HK 1005664 A1	21-02-2003
			HR 970286 A1	30-06-1998
			ID 17713 A	22-01-1998
			IT MI970592 A1	24-11-1997
			PL 320155 A1	08-12-1997
			PT 808951 T	31-05-2002
			SK 64497 A3	14-01-1998

FR 2812008	A	25-01-2002	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82