



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**17.09.2003 Bulletin 2003/38**

(51) Int Cl.7: **H01B 7/18**

(43) Date of publication A2:  
**04.09.2002 Bulletin 2002/36**

(21) Application number: **02380048.5**

(22) Date of filing: **27.02.2002**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE TR**  
Designated Extension States:  
**AL LT LV MK RO SI**

• **Ortega Puigoriol, Juan Manuel**  
**08397 Pineda de Mar (ES)**

(72) Inventor: **Ortega Puigoriol, Juan Manuel**  
**08397 Pineda de Mar (ES)**

(30) Priority: **28.02.2001 ES 200100477**

(74) Representative: **Marques Alos, Fernando**  
**Tuset, 34**  
**08006 Barcelona (ES)**

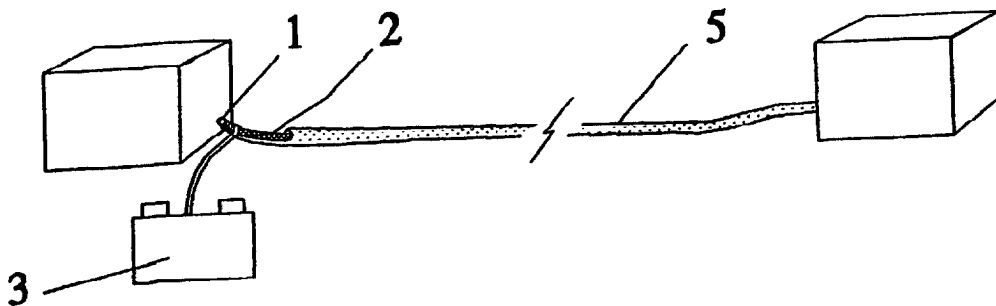
(71) Applicants:  
• **Optral, S.A.**  
**08397 Pineda de Mar (ES)**

(54) **Covering for any kind of cable to protect against animals and insects.**

(57) **"COVERING FOR ANY KIND OF CABLE TO PROTECT AGAINST ANIMALS AND INSECTS"**, characterised essentially by the placement, on a traditional cable (1), of a cover or mesh made from conductive material (2), which will be connected permanently to a power supply (3), battery, cell or network, supplying a volt-

age throughout the length of the cable; and the provision, around the conductive cover (2), of an insulating cover and, optionally, an additional insulating cover (5) located between the sheath of the cable (1) and the conductive cover (2), which absorbs the effects of the latter on the data or energy being transmitted by the cable.

**Fig.3**





European Patent  
Office

EUROPEAN SEARCH REPORT

Application Number  
EP 02 38 0048

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	DE 298 19 821 U (BENZ MARTIN) 14 January 1999 (1999-01-14)	1	H01B7/18
A	* page 5, paragraph 2 - page 10, paragraph 1; figures 1-6 *	2,3	
Y	EP 0 317 101 A (GORE & ASS) 24 May 1989 (1989-05-24)	1	
A	* claims 1-11; figures 1-18 *	2,3	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		23 July 2003	Demolder, J
<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</p> <p>&amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P44001)

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

EP 02 38 0048

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.

23-07-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 29819821	U	14-01-1999	DE 29819821 U1	14-01-1999
EP 0317101	A	24-05-1989	GB 2212644 A	26-07-1989
			AT 98045 T	15-12-1993
			AU 2216688 A	25-05-1989
			DE 3886011 D1	13-01-1994
			DE 3886011 T2	16-06-1994
			EP 0317101 A2	24-05-1989
			HK 126693 A	26-11-1993
			JP 1289017 A	21-11-1989