



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
19.11.1997 Bulletin 1997/47

(51) Int. Cl.⁶: **H01Q 1/12**

(43) Date of publication A2:
05.11.1997 Bulletin 1997/45

(21) Application number: **97111214.9**

(22) Date of filing: **08.03.1993**

(84) Designated Contracting States:
DE ES FR GB IT SE

(30) Priority: **08.04.1992 GB 9207620**

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
93905538.0 / 0 635 165

(71) Applicant:
BSH INDUSTRIES LIMITED
Swinton, Manchester M27 2AU (GB)

(72) Inventors:
• **Easter, Brian**
Llangefni, Gwynedd LL77 7RP (GB)
• **Kropielnicki, Jerzy Jacek**
Knutsford, Cheshire WA16 9DZ (GB)
• **Twort, Keith Jeremy**
Stockport, Cheshire SK2 6BN (GB)

(74) Representative:
Hamilton, Alistair et al
Mewburn Ellis,
York House,
23 Kingsway
London WC2B 6HP (GB)

(54) **Coil construction**

(57) A bifilar coil construction is used for isolating radio signals picked up by a motor vehicle window heating element from the power supply circuit for the heating element. The coil construction has two separate windings (9, 10) which are arranged bodily alongside each other. In one embodiment there is an inner cylindrical

winding (9) within and in contact with an outer cylindrical winding (10), and a two part pot core (15, 16) is clamped within and around the windings 9, 10). In another embodiment, the coils are flat, and disposed one on top of the other.

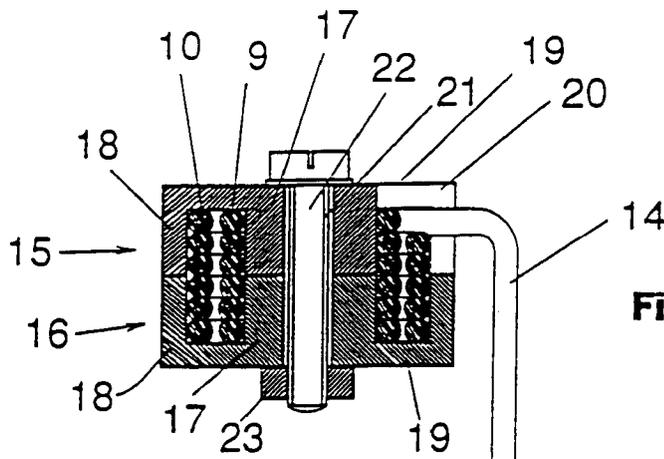


Fig 2



European Patent Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 11 1214

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.6)
D,Y	GB 1 520 030 A (BSH ELECTRONICS MANCHESTER LTD) 2 August 1978 * the whole document * ---	1	H01Q1/12
Y	US 3 812 443 A (SCHROEDER) * the whole document * ---	1	
A	US 4 305 785 A (PRAEG) * abstract * * column 2, line 57 - column 3, line 30; figures 2,3 * ---	1	
A	EP 0 269 924 A (HARADA INDUSTRY) * column 1, line 33 - column 2, line 7 * * column 2, line 36 - column 3, line 9 * * column 4, line 6 - line 45; figures 2,5A,B * ---	1	
A	WO 91 01575 A (BSH ELECTRONICS) * claims 1-3; figures 1,3 * -----	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01Q
Place of search	Date of completion of the search	Examiner	
THE HAGUE	17 September 1997	Angrabeit, F	
CATEGORY OF CITED DOCUMENTS		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	
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			

EPO FORM 1503 01.82 (P04C01)