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(71) Applicant : **AMERICAN TELEPHONE AND  
TELEGRAPH COMPANY**  
**32 Avenue of the Americas**  
**New York, NY 10013-2412 (US)**

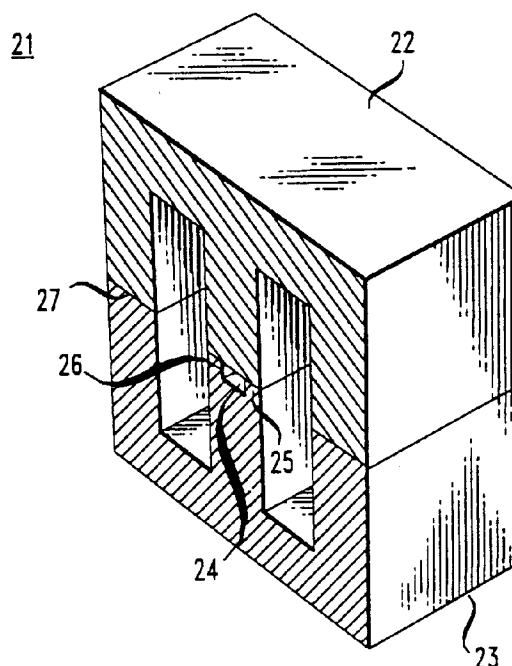
(72) Inventor : **Roy, Apurba**  
**1602 Amesbury Avenue**  
**Rockwall, Texas 75087 (US)**

(74) Representative : **Johnston, Kenneth Graham et  
al**  
**AT & T (UK) Ltd. 5 Mornington Road**  
**Woodford Green Essex, IG8 OTU (GB)**

(54) **Partial gap magnetic core apparatus.**

(57) Potted wire-wound loop-core structures are based on cores which include partial gapped inductors or transformers with their reduced dependence of inductance on current during operation. Total enclosure of gaps by encircling core material is both magnetic and physical, thereby avoiding fringing magnetic fields as well as joint failure due to differential expansion of potting material.

**FIG. 2**





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# EUROPEAN SEARCH REPORT

Application Number  
EP 93 30 4935

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.5)
X	US-A-3 793 557 (BERKEY-COLORTRAN) * column 6, line 20 - line 54; figures 6-8 *	1	H01F3/14 H01F37/02 H01F27/34
X	DE-A-26 58 456 (LICENTIA) * page 4, paragraph 2 -paragraph 4 *	1	
X	DE-A-36 22 190 (PHILIPS PATENTVERWALTUNG) * column 2, line 59 - column 3, line 21 *	1	
A	US-A-4 047 138 (GENERAL ELECTRIC COMPANY)		
A	DE-C-922 423 (A.E.G.)		
A	DE-A-27 01 558 (VOGT GMBH & CO)		
A	US-A-1 876 451 (TELEFUNKEN)		
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			H01F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 December 1993	Examiner Vanhulle, R
<p><b>CATEGORY OF CITED DOCUMENTS</b></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 ..... &amp; : member of the same patent family, corresponding document</p>			

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