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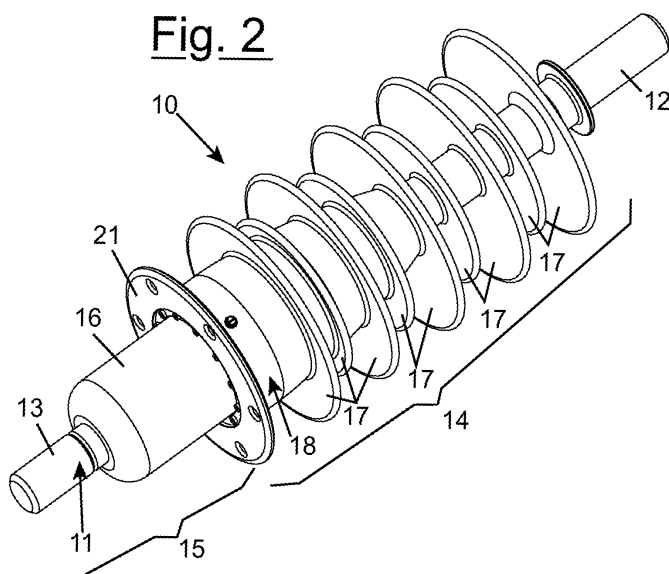
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(54) **Feedthrough insulator for electrical transformers**

(57) A feedthrough insulator (10) for electrical transformers, comprising an insulating body (18), which includes an outer portion (14), to be arranged in air, coupled with an inner portion (15) in the electrical transformer tank, in which the outer and inner insulating portions (14, 15) are crossed axially by a metallic tie rod (11), which acts as an electrical conductor. In particular, the outer insulating portion (14) has a series of fins (17), positioned close together and suitably sized, in order to obtain high dielectric characteristics; moreover, at least one part of

the entire insulating body (18) has a combined insulating coating, formed from the coupling of a layer of silicon, covering the underlying epoxy resin, which, in turn, surrounds the electrical conductor (11). Inside the epoxy resin a metallic screen (19) is also embedded, provided with arms (20), which has the dual purpose of screening the metallic attachment components and the support base (21), for example on the tank of the transformer, and of being used as condenser for the capacitive intakes, consisting of the aforementioned arms (20).





EUROPEAN SEARCH REPORT

Application Number
EP 07 10 9028

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	WO 2005/006355 A (ABB RESEARCH LTD [CH]; ISBERG PETER [SE]; OENNEBY CARINA [SE]; JOHANSS) 20 January 2005 (2005-01-20) * page 6, line 10 - line 32; figure 1 * * page 9, line 15 - line 32; figure 3 *	1-10	INV. H01B17/26
X	US 2002/104679 A1 (KROL ROBERT A [US] ET AL) 8 August 2002 (2002-08-08) * paragraphs [0022], [0023]; figure 2 *	1,2,4-10	
A	WO 97/32318 A (RAMKIW AB [SE]; WIKMAR KJELL [SE]) 4 September 1997 (1997-09-04) * page 1, line 27 - page 2, line 16; figures 1,2 *	1,2,4-8	
A	JP 02 148627 A (MEIDENSHA ELECTRIC MFG CO LTD) 7 June 1990 (1990-06-07) * abstract; figure 1 *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		20 March 2009	Colombo, Alessandro
<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>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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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
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