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(54) **Semi-compacted litz-wire cable strands spaced for coolant flow about individual insulated strands.**

(57) An electromagnetic induction coil (38) for a magnetofluidynamic device (36) includes a cable (22) enclosed within an insulator sheath (18) and composed of multiple individually-insulated conductor strands (24) wound in Litz-wire fashion in a relatively loose relationship to one another to form a semi-compacted bundle. The strands in the semi-compacted bundle define a plurality of empty spaces (26) between individual strands (24) for permitting coolant flow within the sheath (18) and through the bundle along and about the individual strands (24) such that amount of surface area of the strands (24) exposed to contact by the coolant is greater than in a compacted bundle of strands thereby enhancing the heat transfer capability of the cable (22).

EP 0 408 230 A3



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EUROPEAN SEARCH REPORT

Application Number

EP 90 30 7224

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)
A	US-A-3 946 349 (HALDEMAN, III) * Column 2, line 44 - column 4, line 39; figures 1-3 * - - -	1,4	H 01 F 27/08 H 01 F 27/28
A	FR-A-2 445 086 (VOLVO) * Page 3, line 1 - page 4, line 22; figures 1,2 * - - -	1-3	
A	PATENT ABSTRACTS OF JAPAN, vol. 7, no. 162 (E-187)[1307], 15th July 1983; & JP-A-58 68 911 (FUJITSU K.K.) 25-04-1983 - - -	1,5	
A	US-A-3 444 307 (KAFKA) - - -		
A	FR-A-2 233 685 (JOSSE) - - -		
A	US-A-4 176 238 (VULIS et al.) - - - - -		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 01 F H 01 B
Place of search		Date of completion of search	Examiner
The Hague		19 September 91	MARTI ALMEDA R.
CATEGORY OF CITED DOCUMENTS 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 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			