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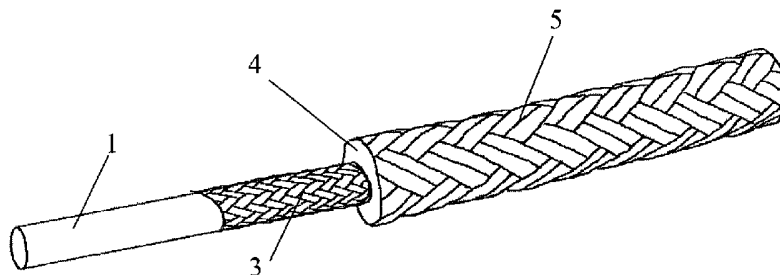
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(54) Title: A HIGH-STRENGTH LIGHT-WEIGHT ROPE WITH A SHAPED CORE



(57) Abstract: A rope with high stiffness and breaking strength is provided. The rope is produced by providing a stiff core (1) and fibre rope jacket (4) surrounding the core and by changing the phase condition of the core while stretching the rope, such that inside vacancies between the fibre rope jacket (4) and the core (1) are eliminated permanently. A method and apparatus for producing such rope are provided, wherein the core (1) is heated up and stretched such that it will be permanently elongated. In a preferred embodiment the thermoplastic core (1) changes from solid phase to liquid phase by means of heating. While in liquid phase the core material adapts to the encapsulating space of the surrounding sheet. The rope is then cooled down under tension until the core has returned to solid phase.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER		
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B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer KERSTIN WACZINSKA/MN

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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