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(54) Title: COATED HIGH STRENGTH FIBERS

(57) Abstract: The invention relates to a high strength fibers comprising a coating of cross-linked silicone polymer, and ropes made thereof. The fibers are preferably high performance polyethylene (HPPE) fibers. The coating comprising a cross-linked silicone polymer is made from a coating composition comprising a cross-linkable silicone polymer. The rope shows markedly improved service life performance in bending applications such as cyclic bend-over-sheave applications. The invention also relates to the use of a cross-linked silicone polymer in a rope for an improvement of bend fatigue resistance.



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