

Title (en)  
HIGH-STRENGTH ULTRA-FINE STEEL WIRE AND MANUFACTURING METHOD THEREFOR

Title (de)  
HOCHFESTER UND ULTRAFEINER STAHLDRAHT SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
FIL D'ACIER ULTRA-FIN À HAUTE RÉSISTANCE ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication  
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Application  
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Abstract (en)  
[origin: US2011168302A1] The present invention provides a steel wire, including chemical components of: C: 0.7-1.2 mass %; Si: 0.05-2.0 mass %; and Mn: 0.2-2.0 mass %, with a balance including Fe and inevitable impurities, in which the steel wire has a pearlite structure, the average C concentration at a center portion of a ferrite phase in an outermost layer of the steel wire is 0.2 mass % or lower, and a residual compressive stress in the longitudinal direction of the steel wire in the outermost layer is 600 MPa or more.

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