

Title (en)

METHOD AND APPARATUS FOR THE ON-LINE MEASUREMENT OF THE STRENGTH OF METAL CABLES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ON-LINE MESSUNG DER HAERTE VON METALLKABELN

Title (fr)

PROCEDE ET APPAREIL PERMETTANT DE MESURER DIRECTEMENT LA RESISTANCE DE CABLES METALLIQUES

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Application

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Abstract (en)

[origin: WO9820335A1] A method and an apparatus are provided for measuring the mechanical properties of ferromagnetic, elongated structures, such as cables, through the measurement of Barkhausen signals. The method comprises creating a magnetic field, that varies as a function of time or of position, and measuring the Barkhausen signals rate as a function of the magnetic field for each section of the structure to be tested. The mechanical properties are determined for each section from the Barkhausen signals relative to it. The apparatus comprises means for generating the variable magnetic field, a plurality of Barkhausen signal sensors distributed along the structure length, and means for comparing the signals relative to each section to be tested.

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