

Title (en)
DEVICE COMPRISING AT LEAST ONE ELASTIC TEXTILE PART EQUIPPED WITH AN INDUCTIVE ELONGATION SENSOR WIRE, USE OF SUCH A DEVICE AND METHOD FOR MEASURING THE VARIATION IN THE INDUCTANCE OF A MAGNETIC COIL CREATED BY SAID INDUCTIVE ELONGATION SENSOR WIRE

Title (de)
VORRICHTUNG MIT MINDESTENS EINEM ELASTISCHEN TEXTILTEIL MIT EINEM INDUKTIVEN DEHNUNGSSENSORWIRTE, VERWENDUNG EINER SOLCHEN VORRICHTUNG UND VERFAHREN ZUR MESSUNG DER INDUKTIVITÄTSÄNDERUNG EINER DURCH DEN INDUKTIVEN DEHNUNGSSENSORWIRTE ERZEUGTEN MAGNETSPULE

Title (fr)
DISPOSITIF COMPRENANT AU MOINS UNE PIÈCE TEXTILE ÉLASTIQUE ÉQUIPÉE D'UN FIL CAPTEUR D'ÉLONGATION INDUCTIF, UTILISATION D'UN TEL DISPOSITIF ET MÉTHODE DE MESURE DE LA VARIATION DE L'INDUCTANCE D'UNE BOBINE MAGNÉTIQUE CRÉÉE PAR LEDIT FIL CAPTEUR D'ÉLONGATION INDUCTIF

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Abstract (en)
[origin: WO2020245220A1] The present invention relates to a device comprising at least one textile part that is elastic in at least one first direction, the textile part comprising an inductive elongation sensor wire (120) comprising an elastic core wire (125) and an electrically conductive covering wire (130) forming turns (135) around said elastic core wire (125), and the electrically conductive covering wire (130) comprises a filament or a plurality of filaments, each of the or said filaments comprises an electrically conductive core covered with an electrically nonconductive sheath. The present invention also relates to the use of such a device for measuring the variation in the inductance of the magnetic coil created by said inductive elongation sensor wire (120) when the elastic textile part is extended in the first direction, and to an associated measurement method.

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