

Title (en)
METHOD AND SENSOR FOR MEASURING TEMPERATURE-COMPENSATED STRAINS

Title (de)
VERFAHREN UND SENSOR ZUR MESSUNG TEMPERATURKOMPENSIERTER BELASTUNGEN

Title (fr)
PROCEDE ET CAPTEUR DE MESURE DE DEFORMATIONS COMPENSEES EN TEMPERATURE

Publication
EP 2212667 A2 20100804 (FR)

Application
EP 08871454 A 20081105

Priority
• FR 2008001557 W 20081105
• FR 0708081 A 20071116

Abstract (en)
[origin: FR2923908A1] The method involves alternately measuring electrical voltages (V_x, V_y) between terminals (3) on a strain gauge's substrate. A relation between the voltages is established based on longitudinal and transversal deformations, where the relation is independent to the temperature. The transversal deformations corresponding to the voltages measured along a transversal direction are established. The longitudinal deformations compensated in temperature are calculated from the relation and the transversal deformations, based on measurement of the voltages along longitudinal and transversal directions. Independent claims are also included for the following: (1) a sensor for measuring longitudinal deformation compensated in temperature of a zone of a structural element (2) a roller bearing comprising a sensor.

IPC 8 full level
G01L 1/22 (2006.01); **G01L 3/10** (2006.01); **G01L 5/00** (2006.01); **G01L 5/16** (2006.01)

CPC (source: EP)
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Citation (search report)
See references of WO 2009092911A2

Citation (examination)
EP 1785711 A2 20070516 - HONEYWELL INC [US]

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
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