

Title (en)

SPATIALLY RESOLVED TEMPERATURE MEASUREMENT INSIDE A SPATIAL DETECTION REGION

Title (de)

ORTSAUFGELOSTE TEMPERATURMESSUNG INNERHALB EINES RÄUMLICHEN ERFASSUNGSBEREICHES

Title (fr)

MESURE DE LA TEMPÉRATURE À RÉOLUTION SPATIALE À L'INTÉRIEUR D'UN DOMAINE DE DÉTECTION SPATIAL

Publication

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Application

EP 08718117 A 20080320

Priority

EP 2008053408 W 20080320

Abstract (en)

[origin: WO2009115127A1] A device and a method for the spatially resolved measurement of the temperature inside a spatially linear detection region are described. The device (100) comprises a measuring body (110) having a first electric conductor (112), a second electric conductor (114), and an insulating material (116), which extends between the two electric conductors (112, 114). The insulating material (116) has a temperature-dependent specific electric resistance. The device (100) further comprises a measuring unit (130), which is connected to the first electric conductor (112) and to the second electric conductor (114). The measuring unit (130) comprises a transmitting unit (132) and a receiving unit (134). The transmitting unit (132) is equipped to apply a time-dependent electric input signal (450a) to the two electric conductors (112, 114). The receiving unit (134) is equipped to detect a time-dependent electric response signal (450b) of the measuring body (110) to the input signal (450a). Furthermore, an alarm system is described, which in addition to a central unit comprises at least one temperature measuring device of the type described above.

IPC 8 full level

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CPC (source: EP US)

G01K 3/005 (2013.01 - EP US); **G01K 7/16** (2013.01 - EP US); **G01K 2003/145** (2013.01 - EP US); **G01K 2007/166** (2013.01 - EP US)

Citation (search report)

See references of WO 2009115127A1

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