

Title (en)  
TEMPERATURE SENSOR OF THERMAL MONITORING SYSTEM FOR USE IN POWER DISTRIBUTION SYSTEMS

Title (de)  
TEMPERATURSENSOR EINES THERMISCHEN ÜBERWACHUNGSSYSTEMS ZUR VERWENDUNG IN STROMVERTEILUNGSSYSTEMEN

Title (fr)  
CAPTEUR DE TEMPÉRATURE DE SYSTÈME DE SURVEILLANCE THERMIQUE À UTILISER DANS DES SYSTÈMES DE DISTRIBUTION D'ÉNERGIE

Publication  
**EP 4200585 A1 20230628 (EN)**

Application  
**EP 21798895 A 20211004**

Priority  
• US 202017076332 A 20201021  
• US 2021053286 W 20211004

Abstract (en)  
[origin: WO2022086699A1] A temperature sensor of a thermal monitoring system is provided for use in power distribution systems. The temperature sensor comprises ceramic printed circuit board (PCB) and a terminal. The ceramic PCB includes a temperature sensing element disposed on a side of the ceramic PCB. The terminal is configured to be fixed directly in contact with a measured point and is directly in touch with the ceramic PCB such that heat is conducted from the terminal, through the ceramic PCB and then to the temperature sensing element. The temperature sensing element is configured to generate an electrical signal in response to the heat such that the electrical signal is sent through a pair of lead wires to a controller for monitoring a temperature. The temperature sensor further comprises an overmolded plastic material to seal a portion of the terminal, the ceramic PCB in its entirety and a portion of the pair of lead wires to ensure a desired physical strength and a desired dielectric strength.

IPC 8 full level  
**G01K 1/14** (2021.01); **G01K 1/16** (2006.01)

CPC (source: EP)  
**G01K 1/14** (2013.01); **G01K 1/16** (2013.01)

Citation (search report)  
See references of WO 2022086699A1

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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