

Title (en)

DEVICE FOR DETECTING FIRES OR ABNORMAL EXCESS TEMPERATURE, ENERGETICALLY INDEPENDENT

Title (de)

ENERGIEAUTONOME VORRICHTUNG ZUR ERKENNUNG VON BRÄNDEN ODER ANORMALEN TEMPERATURÜBERSCHREITUNGEN

Title (fr)

DISPOSITIF DE DETECTION D'INCENDIES OU DE DEPASSEMENT ANORMAL DE TEMPERATURE, ENERGETIQUEMENT AUTONOME

Publication

EP 4198932 B1 20240724 (FR)

Application

EP 21216161 A 20211220

Priority

EP 21216161 A 20211220

Abstract (en)

[origin: WO2023117852A1] The invention relates to a device for detecting fire or abnormal temperature increases, the device comprising a shape memory component (3) that is able to convert the heat received by a source into mechanical energy (movement and/or shape change), a piezoelectric component (4) that is able to convert the mechanical energy into electrical energy, and an electronic module (5) that is able to convert the electrical energy into a radio signal. The shape memory component has, when it moves and/or changes shape, a means (31) for sectioning a support (6) to which the piezoelectric component is secured, the sectioning of the support allowing the piezoelectric component to transition from a first, "tensioned" position (71) to a second, "released" position (72) in which the piezoelectric component (4) is able to resonate and produce electrical energy.

IPC 8 full level

G08B 17/06 (2006.01); **G08B 17/00** (2006.01)

CPC (source: EP)

G08B 17/06 (2013.01); **G08B 17/005** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 4198932 A1 20230621; **EP 4198932 B1 20240724**; **EP 4198932 C0 20240724**; WO 2023117852 A1 20230629

DOCDB simple family (application)

EP 21216161 A 20211220; EP 2022086574 W 20221219