Title (en)

METHOD FOR DETERMINING TWO-DIMENSIONAL TEMPERATURE INFORMATION WITHOUT CONTACT, AND INFRARED MEASURING SYSTEM

Title (de)

VERFAHREN ZUR KONTAKTFREIEN ERMITTLUNG EINER ZWEIDIMENSIONALEN TEMPERATURIN-FORMATION SOWIE INFRAROT-MESSSYSTEM

Title (fr)

PROCÉDÉ DE DÉTERMINATION SANS CONTACT D'INFORMATIONS DE TEMPÉRATURE BIDIMENSIONNELLES ET SYSTÈME DE MESURE INFRAROUGE

Publication

EP 3516355 A1 20190731 (DE)

Application

EP 17762102 A 20170904

Priority

• DE 102016218295 A 20160923
• EP 2017072103 W 20170904

Abstract (en)

[origin: WO2018054670A1] The invention relates to a method for determining a two-dimensional temperature information (12) of a scene (14) without contact, in particular for determining a thermal image (12a) of a scene (14) without contact, by means of an infrared measuring system (10), which method has at least the following method steps: measuring infrared radiation by means of an infrared detector array (44) of the infrared measuring system (10), which comprises a multiplicity of pixels (52) that are sensitive to infrared radiation, determining two-dimensional temperature information (12), in particular a thermal image (12a), from measured infrared radiation, determining distance information (36) between the infrared measuring system (10) and the scene (14) by means of a distance determining device (34) of the infrared measuring system (10). According to the invention, the two-dimensional temperature information (12), in particular the thermal image (12a), is evaluated with regard to a geometric variable by using the distance information (36). The invention further relates to a corresponding infrared measuring system (10).

IPC 8 full level

G01J 5/02 (2006.01); **G01J 5/00** (2006.01); **G01J 5/08** (2006.01)

CPC (source: EP)

G01J 5/025 (2013.01); **G01J 5/0265** (2013.01); **G01J 5/0275** (2013.01); **G01J 5/0859** (2013.01); **G01J 5/80** (2022.01); G01J 2005/0077 (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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2018054670 A1 20180329; CN 109716080 A 20190503; DE 102016218295 A1 20180329; EP 3516355 A1 20190731

DOCDB simple family (application)

EP 2017072103 W 20170904; CN 201780058537 A 20170904; DE 102016218295 A 20160923; EP 17762102 A 20170904