

Title (en)  
THERMOGRAPHY METHOD

Title (de)  
THERMOGRAPHIEVERFAHREN

Title (fr)  
PROCEDE THERMOGRAPHIQUE

Publication  
**EP 3625760 A1 20200325 (DE)**

Application  
**EP 18727129 A 20180502**

Priority  
• AT 504212017 A 20170516  
• AT 2018050007 W 20180502

Abstract (en)  
[origin: WO2018209370A1] The invention relates to a method for recording thermal images of a structure (S) to be depicted and arranged under a sample surface (P), comprising a thermal image camera (K) recording the sample surface (P), a source (Q) of electromagnetic radiation for illuminating the structure (S) to be depicted, and comprising an evaluation unit (A) for evaluating the surface measuring data recorded by the thermal image camera (K). To improve the depth resolution, according to the invention, the structure (S) to be depicted is irradiated by means of an unknown structured illumination and therefore heated to achieve improved reconstruction, wherein a plurality of images are used to evaluate the structure (S) and the structure (S) is irradiated by means of a differently structured illumination for each image, and a non-linear iterative evaluation algorithm from the images recorded by the thermal image camera (K), which algorithm utilizes the thin occupancy and the constant location of the heated structure for the differently structured illumination patterns, is used to calculate the structure (S) to be depicted.

IPC 8 full level  
**G06T 5/00** (2006.01)

CPC (source: AT EP US)  
**G01J 5/00** (2013.01 - US); **G01N 25/72** (2013.01 - AT); **G06T 3/4053** (2013.01 - US); **G06T 5/73** (2024.01 - EP); **G06T 11/006** (2013.01 - US); **H04N 23/56** (2023.01 - US); **G01J 5/48** (2013.01 - US); **G01J 2005/0077** (2013.01 - US); **G01N 21/88** (2013.01 - AT); **G06T 11/006** (2013.01 - AT); **G06T 2207/10048** (2013.01 - AT EP); **G06T 2211/424** (2013.01 - US)

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 2018209370 A1 20181122**; AT 520007 A1 20181215; AT 520007 B1 20190915; CA 3063278 A1 20191205; EP 3625760 A1 20200325; US 2021255042 A1 20210819

DOCDB simple family (application)  
**AT 2018050007 W 20180502**; AT 504212017 A 20170516; CA 3063278 A 20180502; EP 18727129 A 20180502; US 201816613986 A 20180502