

Title (en)

APPARATUS AND METHOD FOR PROJECTING INFORMATION ONTO AN OBJECT IN THERMOGRAPHY INVESTIGATIONS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM PROJIZIEREN VON INFORMATION AUF EIN OBJEKT BEI THERMOGRAPHIE-UNTERSUCHUNGEN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR LA PROJECTION D'INFORMATIONS SUR UN OBJET LORS D'EXAMENS PAR THERMOGRAPHIE

Publication

EP 2531843 A1 20121212 (DE)

Application

EP 11709358 A 20110308

Priority

- DE 102010014744 A 20100413
- EP 2011053424 W 20110308

Abstract (en)

[origin: WO2011128157A1] The present invention discloses an apparatus and a method for assessing an object (1) to be tested by means of thermography, in particular active thermography. The intention is to provide a more accurate and more reliable thermography investigation. For this purpose, the intention is to position the object (1) to be assessed and to locate defects on the object (1) with improved accuracy. The invention is distinguished by the fact that an infrared camera (2) having a lens with a first lens axis (2a) is provided for the purpose of recording at least one thermography light image (4) of the object (1). In addition, a projection unit (3) having a lens with a second lens axis (3a) is provided for the purpose of projecting at least one item of information onto the object (1). In addition, a distributor unit (5) which is positioned with respect to the lens axes (2a, 3a) of the infrared camera (2) and of the projection unit (3) is provided for the purpose of reflecting the lens axis of the infrared camera (2) or of the projection unit (3) into the respective other lens axis in the direction of the object (1) and for the purpose of transmitting or deflecting infrared light from the object (1) to the infrared camera (2) and for the purpose of deflecting or transmitting light from the projection unit (3) the object (1).

IPC 8 full level

G01N 25/72 (2006.01); **G01N 21/71** (2006.01); **G01N 21/88** (2006.01); **G02B 27/09** (2006.01); **G06T 7/00** (2006.01)

CPC (source: EP KR US)

G01N 21/71 (2013.01 - KR); **G01N 21/88** (2013.01 - KR); **G01N 25/72** (2013.01 - EP KR US); **G02B 27/09** (2013.01 - KR); **G06T 7/74** (2016.12 - EP US); **G06T 2207/10048** (2013.01 - EP US); **G06T 2207/30164** (2013.01 - EP US)

Citation (search report)

See references of WO 2011128157A1

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)

DE 102010014744 A1 20111013; **DE 102010014744 B4 20130711**; CN 102834714 A 20121219; EP 2531843 A1 20121212; JP 2013524250 A 20130617; JP 2015014609 A 20150122; JP 5599938 B2 20141001; KR 101412192 B1 20140702; KR 20130027505 A 20130315; US 2013027547 A1 20130131; WO 2011128157 A1 20111020

DOCDB simple family (application)

DE 102010014744 A 20100413; CN 201180018822 A 20110308; EP 11709358 A 20110308; EP 2011053424 W 20110308; JP 2013504184 A 20110308; JP 2014164870 A 20140813; KR 20127029655 A 20110308; US 201113640529 A 20110308