

Title (en)
ENDOSCOPE HAVING 3D FUNCTIONALITY

Title (de)
ENDOSKOP MIT 3D-FUNKTIONALITÄT

Title (fr)
ENDOSCOPE AVEC FONCTIONNALITÉ 3D

Publication
EP 2619621 A1 20130731 (DE)

Application
EP 11749807 A 20110823

Priority
• DE 102010050227 A 20101104
• EP 2011064450 W 20110823

Abstract (en)
[origin: WO2012059253A1] The invention relates to an endoscope (10) for quantitatively determining dimensions of an object (5) in a cavity, wherein a projector (4) connected to a light guide (3) can be introduced through the instrument channel (7). In the introduced position, the projector projects a pattern at a defined illumination angle (α) onto the object (5) to be examined. The camera (1) captures said projected pattern at a fixed viewing angle (β) in a distorted form corresponding to the object (5). By means of a triangulation method the distorted form is used for quantitatively determining dimensions of the object (5).

IPC 8 full level
G02B 23/24 (2006.01); **A61B 1/00** (2006.01); **A61B 1/018** (2006.01)

CPC (source: EP US)
A61B 1/000095 (2022.02 - US); **A61B 1/00193** (2013.01 - EP US); **A61B 1/00194** (2022.02 - EP US); **A61B 1/018** (2013.01 - EP US); **G01B 11/12** (2013.01 - EP US); **G01B 11/25** (2013.01 - EP US); **G02B 23/2415** (2013.01 - EP US); **G02B 23/2484** (2013.01 - EP US); **G02B 23/26** (2013.01 - EP US)

Citation (search report)
See references of WO 2012059253A1

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 102010050227 A1 20120510; EP 2619621 A1 20130731; JP 2014502174 A 20140130; US 2014085421 A1 20140327; WO 2012059253 A1 20120510

DOCDB simple family (application)
DE 102010050227 A 20101104; EP 11749807 A 20110823; EP 2011064450 W 20110823; JP 2013537047 A 20110823; US 201113883319 A 20110823