

Title (en)

METHOD FOR AUTOMATED 3D-OBJECT RECOGNITION AND LOCATION DETERMINATION

Title (de)

VERFAHREN ZUR AUTOMATISIERTEN 3D-OBJEKTERKENNUNG UND LAGEBESTIMMUNG

Title (fr)

PROCÉDÉ DE RECONNAISSANCE AUTOMATISÉE DES OBJETS 3D ET DÉTERMINATION DE POSITION

Publication

EP 2047403 A1 20090415 (DE)

Application

EP 07786429 A 20070730

Priority

- EP 2007006728 W 20070730
- DE 102006036346 A 20060803

Abstract (en)

[origin: WO2008014960A1] The invention relates to a method for the automatic recognition of three-dimensional objects which can be described by regular geometric elements, and a device for processing such objects, wherein the objects can reside in a complex environment. The method is characterized in that the arrangement parameters of the object to be recognized are determined by the fact that at least a part of the regular geometric elements describing the object to be recognized is jointly adjusted to fit data from the objects acquired by a 3D-sensor, taking into account the relationships of the regular geometric elements in the object.

IPC 8 full level

G06K 9/00 (2006.01)

CPC (source: EP US)

G06V 10/245 (2022.01 - EP US); **G06V 20/653** (2022.01 - EP US)

Citation (search report)

See references of WO 2008014960A1

Citation (examination)

FAUGERAS O D ET AL: "THE REPRESENTATION, RECOGNITION, AND LOCATING OF 3-D OBJECTS", INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH, SAGE SCIENCE PRESS, THOUSAND OAKS, US, vol. 5, no. 3, 1 September 1986 (1986-09-01), pages 27 - 52, XP008018683, ISSN: 0278-3649

Cited by

EP2720171A1; EP2385483A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

DE 102006036346 A1 20080207; **DE 102006036346 B4 20101230**; EP 2047403 A1 20090415; WO 2008014960 A1 20080207

DOCDB simple family (application)

DE 102006036346 A 20060803; EP 07786429 A 20070730; EP 2007006728 W 20070730