

Title (en)

APPARATUS FOR IDENTIFICATION OF AN OBJECT QUEUE, METHOD AND COMPUTER PROGRAMME

Title (de)

VORRICHTUNG ZUR ERKENNUNG EINER OBJEKTSCHLANGE, VERFAHREN SOWIE COMPUTERPROGRAMM

Title (fr)

DISPOSITIF POUR DÉTECTER UNE FILE D'OBJETS, PROCÉDÉ ET PROGRAMME INFORMATIQUE ASSOCIÉS

Publication

**EP 2467801 A1 20120627 (DE)**

Application

**EP 10729859 A 20100702**

Priority

- DE 102009028604 A 20090818
- EP 2010059434 W 20100702

Abstract (en)

[origin: WO2011020641A1] In daily life, people are often forced to join a queue in order, for example, to pay at a checkout or to be dealt with at an airport, etc. Because of the various forms of a queue, these are not usually recorded automatically, but are analyzed manually. For example, if a long queue is formed at a supermarket, as a result of which the predicted waiting time for the customers rises above a threshold value, this situation can be identified by the checkout personnel, and a further checkout can be opened. A device 1 is proposed for identification of a queue 2 of objects 10 in a monitoring area, having an interface 6 which can be connected to an image source 7, with the interface 6 being designed to observe at least one monitoring image 3 of the monitoring area of the image source, wherein the monitoring image 3 shows a scene background of the monitoring area with possible objects 10, having an evaluation device 5 which is designed to identify the queue 2 of the objects 10 in the at least one monitoring image, wherein the evaluation device 5 has an object detector module 8 which is designed to detect a plurality of objects 10 on the basis of the monitoring image 3, wherein the plurality of the detected objects 10 forms the basis for identification of the queue 2 of the objects 10, wherein the object detector module 8 is designed to identify the objects 8 in the monitoring image with the scene background and/or wherein the object detector module 8 has content-sensitive detectors 9 for detection of the objects 10.

IPC 8 full level

**G06K 9/00** (2006.01)

CPC (source: EP US)

**G06V 20/53** (2022.01 - EP US)

Citation (search report)

See references of WO 2011020641A1

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 SE SI SK SM TR

DOCDB simple family (publication)

**DE 102009028604 A1 20110224**; CN 102549600 A 20120704; CN 102549600 B 20150722; EP 2467801 A1 20120627; US 2012207350 A1 20120816; US 8855364 B2 20141007; WO 2011020641 A1 20110224

DOCDB simple family (application)

**DE 102009028604 A 20090818**; CN 201080046950 A 20100702; EP 10729859 A 20100702; EP 2010059434 W 20100702; US 201013391356 A 20100702