

Title (en)

SYSTEM AND METHOD FOR DETECTING THE CLASS OF AVEHICLE IN TRANSIT

Title (de)

SYSTEM UND VERFAHREN ZUR ERKENNUNG DER KLASSE EINES VORBEIFAHRENDEN FAHRZEUGS

Title (fr)

SYSTÈME ET PROCÉDÉ POUR DETECTER LA CLASSE D'UN VÉHICULE EN TRANSIT

Publication

EP 4134933 A1 20230215 (EN)

Application

EP 22189229 A 20220808

Priority

IT 202100021770 A 20210811

Abstract (en)

A system and a method for detecting the class of a vehicle in transit along a road section are described. An image acquisition device acquires the images of the vehicle, in which the license plate (or license plates) of the vehicle is/are visible. In the acquired images the license plate is identified, its properties (shape, syntax of the license plate number, number of visible license plates of the vehicle) are determined and, if these properties uniquely indicate that the vehicle belongs to a certain class, it is concluded that the vehicle belongs to that class. If this is not the case, it is determined whether in the images acquired there are present further retroreflective elements which, according to the existing regulations, must be affixed to certain categories of vehicles (retroreflective panels for trucks or for semi-trailer trucks, etc.). Then the properties of these possible further elements are determined and, if these uniquely indicate that the vehicle belongs to a certain class, it is concluded that the vehicle belongs to that class.

IPC 8 full level

G08G 1/015 (2006.01); **G08G 1/017** (2006.01); **G08G 1/04** (2006.01)

CPC (source: EP)

G08G 1/015 (2013.01); **G08G 1/0175** (2013.01); **G08G 1/04** (2013.01)

Citation (applicant)

- EP 2686841 A2 20140122 - UNIV CALIFORNIA [US]
- US 2013050492 A1 20130228 - LEHNING MICHAEL [DE]

Citation (search report)

- [XYI] EP 2820632 A1 20150107 - LEDDARTECH INC [CA]
- [XI] US 2013050492 A1 20130228 - LEHNING MICHAEL [DE]
- [X] JP H08233525 A 19960913 - HITACHI LTD
- [Y] WO 2012074526 A1 20120607 - 3M INNOVATIVE PROPERTIES CO [US], et al
- [X] US 2011103647 A1 20110505 - LEOPOLD ALEXANDER [AT], et al
- [A] US 2008143555 A1 20080619 - ALLEN JIM [US], et al

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)

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