

Title (en)

SYSTEM FOR DETECTING THE RUNNING OF A RED LIGHT, AND CORRESPONDING METHOD

Title (de)

SYSTEM ZUR ERKENNUNG DES BETRIEBS EINES ROTLICHTES UND ZUGEHÖRIGES VERFAHREN

Title (fr)

SYSTEME DE DETECTION D'UN FRANCHISSEMENT D'UN FEU ROUGE, PROCEDE CORRESPONDANT

Publication

EP 2599070 A1 20130605 (FR)

Application

EP 11735887 A 20110727

Priority

- FR 1056340 A 20100730
- EP 2011062942 W 20110727

Abstract (en)

[origin: WO2012013724A1] The invention relates to a system for detecting the crossing, by a vehicle (3), of an effective line (L1) of a red light in a three-color traffic light (2), on a roadway (4) comprising at least four lanes, said system comprising at least two apparatuses (1) located on either side of the roadway (4), wherein each apparatus (1) comprises a pair of presence areas provided on each lane, for one to n lanes of the roadway (4); an image sensor (10), the field of view of which is capable of viewing at least the one to n lanes of the roadway (4) that are provided with at least one pair of presence areas, and thus defining a farthest lane in view on the roadway (4) as being the most distant lane from the sensor (10) among the one to n lanes of the roadway (4); and a processor (20) connected at least to each pair of presence areas and to the sensor (10), the processor being capable of detecting the presence of a vehicle (3) passing into a presence area, characterized in that the system comprises an additional presence area (31-1), connected to a first apparatus (1) and located in the farthest lane in view of the second apparatus (1), upstream from any presence area (21) connected to said first apparatus and located in the farthest lane in view of the apparatus (1). The invention also relates to a method implemented by the system.

IPC 8 full level

G08G 1/04 (2006.01); **G08G 1/042** (2006.01); **G08G 1/054** (2006.01)

CPC (source: EP)

G08G 1/04 (2013.01); **G08G 1/042** (2013.01); **G08G 1/054** (2013.01)

Citation (search report)

See references of WO 2012013724A1

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)

WO 2012013724 A1 20120202; EP 2599070 A1 20130605; EP 2599070 B1 20180905; FR 2963464 A1 20120203; FR 2963464 B1 20120810

DOCDB simple family (application)

EP 2011062942 W 20110727; EP 11735887 A 20110727; FR 1056340 A 20100730