

Title (en)

DEVICE FOR DETECTING ROAD SURFACE WATER

Title (de)

VORRICHTUNG ZUR DETEKTION VON STRASSEN OBERFLÄCHENWASSER

Title (fr)

DISPOSITIF POUR LA DETECTION D'EAU SUR LA ROUTE

Publication

**EP 3610473 A1 20200219 (FR)**

Application

**EP 18717508 A 20180410**

Priority

- RO 201700216 A 20170411
- EP 2018025105 W 20180410

Abstract (en)

[origin: WO2018188811A1] The present invention relates to a device for detecting road surface water, such that speed limits in force on a road can be adapted automatically to driving conditions and information can be transmitted to a receiver. The device of the invention is based on the use of a light ray transformed by means of refraction and absorption effects, for the detection of road surface water, whereby the passage of vehicles serves as an indicator of the condition of the road, given that the wheels will cause water to be splashed or sprayed in their wake when the road is wet and, owing to the effect of refraction or absorption, the splashes will cause a change in the quality of a light ray as it passes therethrough before reaching a receiver. The receiver can display the information on a dashboard of a vehicle or on variable message traffic signs, and can transmit said information to one or more automatic radars.

IPC 8 full level

**B60R 16/023** (2006.01); **B60W 40/064** (2012.01); **G01V 8/20** (2006.01); **G01V 8/22** (2006.01); **G08G 1/01** (2006.01); **G08G 1/04** (2006.01)

CPC (source: EP KR US)

**B60W 40/064** (2013.01 - KR); **G01S 7/4806** (2013.01 - US); **G01V 8/12** (2013.01 - EP US); **G01V 8/14** (2013.01 - EP US); **G01V 8/20** (2013.01 - EP US); **G01V 8/22** (2013.01 - EP KR); **G08G 1/0112** (2013.01 - EP KR US); **G08G 1/0116** (2013.01 - EP KR US); **G08G 1/0141** (2013.01 - EP KR US); **G08G 1/04** (2013.01 - EP US); **G08G 1/048** (2013.01 - US); **G08G 1/07** (2013.01 - US); **G08G 1/091** (2013.01 - US)

Citation (search report)

See references of WO 2018188811A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2018188811 A1 20181018**; CA 3056988 A1 20181018; CN 110520914 A 20191129; EP 3610473 A1 20200219; JP 2020516998 A 20200611; KR 20190139858 A 20191218; RO 132860 A1 20181030; RO 132860 B1 20201230; US 2021110712 A1 20210415

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