

Title (en)

Method and system for detecting freezing of a liquid on a road

Title (de)

Verfahren und System zur Erkennung des Gefrierens einer Flüssigkeit auf der Straße

Title (fr)

Procédé et système pour la détection de la congélation d'un liquide sur la route

Publication

**EP 2290630 A1 20110302 (EN)**

Application

**EP 10173604 A 20100820**

Priority

SE 0950623 A 20090901

Abstract (en)

A system (2) and a method are provided for detecting freezing of a liquid on a road utilizing a release of latent heat from the liquid. The system comprises a sensor for measuring a road temperature, and a processor connected to the sensor and adapted to monitor temperature changes over time as measured by the sensor. The sensor comprises a measuring element arranged above and at a distance from a road surface portion (10) to continuously measure a surface temperature over the road surface portion (10). The processor is adapted to determine the release of latent heat as an increase in the surface temperature corresponding to a differential quotient between the surface temperature and time and the differential quotient exceeding a threshold value.

IPC 8 full level

**G08B 19/02** (2006.01)

CPC (source: EP SE)

**G08B 19/02** (2013.01 - EP SE)

Citation (applicant)

- US 5416476 A 19950516 - RENDON EDWARD [US]
- US 2002075141 A1 20020620 - LANG HEINRICH [DE], et al
- US 5313202 A 19940517 - HANSMAN JR ROBERT J [US], et al
- US 6456200 B1 20020924 - BOSTROEM ROLAND [SE], et al
- WO 03044508 A1 20030530 - ENERGY ABSORPTION SYSTEM [US]

Citation (search report)

[I] US 5313202 A 19940517 - HANSMAN JR ROBERT J [US], et al

Cited by

WO2019135709A1

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

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 10173604 A 20100820**; SE 0950623 A 20090901