

Title (en)
TAILBACK DETECTION ON THE BASIS OF MOVEMENT DATA

Title (de)
RÜCKSTAUERKENNUNG AUS BEWEGUNGSDATEN

Title (fr)
RECONNAISSANCE D'EMBOUEILLAGE À PARTIR DE DONNÉES DE MOUVEMENT

Publication
EP 3903292 B1 20240228 (DE)

Application
EP 19816582 A 20191202

Priority
• DE 102018010003 A 20181227
• EP 2019083279 W 20191202

Abstract (en)
[origin: WO2020135974A1] A method for determining the length of a tailback (R) of motor vehicles (10) at traffic light system (12) and a waiting time (T) which is caused by the tailback (R), comprising the steps of receiving (20) movement data (10') from motor vehicles (10) by means of a data reception unit (4), determining (22) stopping processes of motor vehicles (10) at a traffic light system (12) on the basis of the movement data (10') by means of a data-processing unit (2), determining (24) the spatial and chronological distribution of the stopping processes of the motor vehicles (10) by means of the data-processing unit (2), determining (26) the maximum length of the tailback (R) of motor vehicles (10) and its timing by means of the data-processing unit (2), and producing (28) a prediction relating to a buildup and/or reduction of the tailback (R) of the motor vehicles (10) and a waiting time (T) up to the point when the tailback (R) is passed through by means of the data-processing unit (2), wherein the creation (28) of a prediction does not require any connection to infrastructure.

IPC 8 full level
G08G 1/01 (2006.01); **B60W 30/16** (2020.01); **G08G 1/00** (2006.01); **G08G 1/0967** (2006.01); **G08G 1/16** (2006.01)

CPC (source: EP)
G08G 1/0112 (2013.01); **G08G 1/0133** (2013.01); **G08G 1/0145** (2013.01); **G08G 1/096791** (2013.01); **G08G 1/163** (2013.01); **G08G 1/22** (2013.01)

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 2020135974 A1 20200702; DE 102018010003 A1 20200702; EP 3903292 A1 20211103; EP 3903292 B1 20240228

DOCDB simple family (application)
EP 2019083279 W 20191202; DE 102018010003 A 20181227; EP 19816582 A 20191202