Title (en)
VEHICLE-TO-EVERYTHING (V2X) MISBEHAVIOR DETECTION USING A LOCAL DYNAMIC MAP DATA MODEL

Title (de)
DETEKTION VON FAHRZEUG-ZU-ALLES-FEHLVERHALTEN (V2X) UNTER VERWENDUNG EINES LOKALEN DYNAMISCHEN KARTENDATENMODELLS

Title (fr)
DÉTECTION DE MAUVAIS COMPORTEMENT DE VÉHICULE À TOUT (V2X) À L'AIDE D'UN MODÈLE DE DONNÉES DE CARTE DYNAMIQUE LOCALE

Publication
EP 4282173 A1 20231129 (EN)

Application
EP 21830843 A 20211129

Priority
• US 202163138909 P 20210119
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• US 2021060919 W 20211129

Abstract (en)
[origin: WO2022159173A1] Embodiments include methods performed by a processor of a vehicle-to-everything (V2X) system within a vehicle for detecting misbehavior conditions by comparing information received in V2X messages to local dynamic map data. Various embodiments may include receiving V2X messages from other V2X system participants, determining whether a misbehavior condition is detected by comparing data contained in the received V2X messages to information in a locally maintained or stored local dynamic map data model, detecting a misbehavior condition and generating a misbehavior report identifying the misbehavior condition in response to a conflict or inconsistency between some data in the received V2X message and the local dynamic map.

IPC 8 full level
H04W 12/121 (2021.01); **H04W 4/02** (2018.01); **H04W 4/40** (2018.01); **H04W 12/63** (2021.01); **H04W 12/65** (2021.01)

CPC (source: EP KR)
G08G 1/0108 (2013.01 - KR); **G08G 1/0141** (2013.01 - KR); **H04W 4/025** (2013.01 - KR); **H04W 4/12** (2013.01 - KR); **H04W 4/38** (2018.01 - KR); **H04W 4/40** (2018.01 - KR); **H04W 12/121** (2021.01 - EP); **H04W 12/63** (2021.01 - EP); H04L 63/1425 (2013.01 - EP); H04W 4/02 (2013.01 - EP); H04W 4/40 (2018.01 - EP); H04W 12/65 (2021.01 - EP)

Citation (search report)
See references of WO 2022159173A1

Designated contracting state (EPC)
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BA ME

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DOCDB simple family (publication)
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US 2021060919 W 20211129; BR 112023013712 A 20211129; EP 21830843 A 20211129; JP 2023542759 A 20211129; KR 20237023819 A 20211129; TW 110144339 A 20211129