

Title (en)

AUTHENTICATING PLAINTEXT AND CIPHERTEXT IN A VEHICLE-TO-EVERYTHING (V2X) MESSAGE

Title (de)

AUTHENTIFIZIERUNG VON KLARTEXT UND CHIFFRETEXT IN EINER VEHICLE-TO-EVERYTHING (V2X)-NACHRICHT

Title (fr)

AUTHENTIFICATION DE TEXTE EN CLAIR ET DE TEXTE CHIFFRÉ DANS UN MESSAGE V2X (VÉHICULE À TOUT)

Publication

**EP 4305802 A1 20240117 (EN)**

Application

**EP 22701452 A 20220104**

Priority

- US 202163158955 P 20210310
- US 202163180450 P 20210427
- US 202117497120 A 20211008
- US 2022011077 W 20220104

Abstract (en)

[origin: WO2022191908A1] Methods and devices and systems for implementing the methods for authenticating plaintext and ciphertext in a vehicle-to-everything (V2X) message include generating ciphertext from a plaintext message to be transmitted in a V2X message, generating a hash of the ciphertext and a hash of the plaintext message, generating a digital signature of a concatenation of the hash of the ciphertext and the hash of the plaintext message, and sending to a network node a V2X message that includes the ciphertext, the hash of the plaintext message, and the digital signature. The hash of the plaintext message, and the digital signature may be configured to enable the network node to verify that the V2X endpoint node signed the concatenation.

IPC 8 full level

**H04L 9/32** (2006.01)

CPC (source: EP KR)

**H04L 9/3239** (2013.01 - EP KR); **H04L 9/3247** (2013.01 - EP KR); **H04L 2209/68** (2013.01 - EP KR); **H04L 2209/76** (2013.01 - EP KR); **H04L 2209/84** (2013.01 - EP KR)

Citation (search report)

See references of WO 2022191908A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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