

Title (en)

SYNCHRONIZATION OF DATA PACKETS IN A DATA COMMUNICATION SYSTEM OF A VEHICLE

Title (de)

SYNCHRONISIEREN VON DATENPAKETEN IN EINEM DATENKOMMUNIKATIONSSYSTEM EINES FAHRZEUGS

Title (fr)

SYNCHRONISATION DE PAQUETS DE DONNÉES DANS UN SYSTÈME DE TRANSMISSION DE DONNÉES D'UN VÉHICULE

Publication

EP 2932636 A1 20151021 (DE)

Application

EP 13802919 A 20131202

Priority

- DE 102012223307 A 20121214
- EP 2013075215 W 20131202

Abstract (en)

[origin: WO2014090612A1] A method for synchronizing data packets from an unclocked data communication network (14) with a clocked data communication network (12) comprises the steps: receiving clocked data packets (72) from the clocked data communication network (12) in a gateway (28) at clock cycles (70) of the clocked data communication network (12); packing data from the clocked data packets (72) into first unclocked data packets (74) for the unclocked data communication network (14) in the gateway (28); providing the unclocked data packets (74) with one time stamp each, from which a clock cycle of a clocked data packet (72), the data of which have been packed into a respective first unclocked data packet (74), can be reconstructed; transmitting the first unclocked data packets (74) via the unclocked data communication network (14) to a receiver node (24) of the unclocked data communication network (14); reading the time stamps out of the first unclocked data packets (74) and reconstructing the clock cycle (80) of the clocked data communication network (12) from the time stamps, a transmission frequency, a number of clocked data packets and/or a local clock in the receiver node (24); and transmitting second unclocked data packets in a clock cycle (84) which is synchronous with the reconstructed clock cycle (84).

IPC 8 full level

H04J 3/06 (2006.01); **H04L 12/40** (2006.01); **H04L 12/46** (2006.01)

CPC (source: EP US)

H04J 3/0632 (2013.01 - EP US); **H04J 3/0638** (2013.01 - EP US); **H04L 7/0012** (2013.01 - US); **H04L 12/40** (2013.01 - US); **H04L 12/40091** (2013.01 - EP US); **H04L 12/4625** (2013.01 - EP US); **H04L 12/66** (2013.01 - US); **H04N 21/41422** (2013.01 - EP US); **H04N 21/4302** (2013.01 - EP US); **H04N 21/43632** (2013.01 - EP US); **H04J 3/0664** (2013.01 - EP US); **H04L 2012/40273** (2013.01 - EP US)

Citation (search report)

See references of WO 2014090612A1

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

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BA ME

DOCDB simple family (publication)

DE 102012223307 A1 20140618; **DE 102012223307 B4 20210304**; CN 104871461 A 20150826; EP 2932636 A1 20151021; US 2015333899 A1 20151119; WO 2014090612 A1 20140619

DOCDB simple family (application)

DE 102012223307 A 20121214; CN 201380065462 A 20131202; EP 13802919 A 20131202; EP 2013075215 W 20131202; US 201314652411 A 20131202