

Title (en)

METHOD AND APPARATUS FOR ENERGY-OPTIMIZED DATA TRANSMISSION BY MEANS OF OPC UA PROTOCOL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ENERGIEOPTIMIERTEN DATENÜBERTRAGUNG MITTELS OPC UA PROTOKOLL

Title (fr)

PROCÉDÉ ET DISPOSITIF DE TRANSMISSION DE DONNÉES AVEC CONSOMMATION D'ÉNERGIE OPTIMISÉE AU MOYEN D'UN PROTOCOLE OPC UA

Publication

EP 3143743 A1 20170322 (DE)

Application

EP 14739775 A 20140710

Priority

EP 2014064810 W 20140710

Abstract (en)

[origin: WO2016004997A1] An OPC UA client is rendered able to consolidate the transmission and reception times so as to extend the antenna amplifier pause times. In so doing, it is meant, without this requiring a change to the OPC UA protocol, to send exclusively at defined focusing times. No sending is meant to be necessary between these times. A set of requests is sent to the server at a particular time. The client then enters reception mode. The server handles the received requests periodically over time. When almost all requests have been handled, a new set of requests is made to the server again. Between these focusing times, the transmitter of the client/mobile device can be switched off completely and hence save power. The method presented here is totally compatible at all levels of communication (TCP stack, WLAN).

IPC 8 full level

H04L 29/06 (2006.01)

CPC (source: EP US)

H04L 43/10 (2013.01 - US); **H04L 67/145** (2013.01 - EP US); **H04W 52/0241** (2013.01 - EP US); **H04L 67/01** (2022.05 - US); **Y02D 30/70** (2020.08 - EP US)

Citation (search report)

See references of WO 2016004997A1

Citation (examination)

- US 2012078403 A1 20120329 - CAHILL JAMES S [US], et al
- US 2012259466 A1 20121011 - RAY ARUP RATAN [IN], et al
- "OPC Unified Architecture - Pioneer of the 4th industrial (r)evolution - OPC UA", 1 March 2014 (2014-03-01), pages 1 - 36, XP055176088, Retrieved from the Internet <URL:https://opcfoundation.org/wp-content/uploads/2014/03/OPC_UA_I_4.0_Pioneer_US_v2.pdf> [retrieved on 20150312]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2016004997 A1 20160114; CN 106576095 A 20170419; EP 3143743 A1 20170322; US 2017208550 A1 20170720

DOCDB simple family (application)

EP 2014064810 W 20140710; CN 201480080300 A 20140710; EP 14739775 A 20140710; US 201415325013 A 20140710