

Title (en)

A LOCAL COMPUTING CLOUD THAT IS INTERACTIVE WITH A PUBLIC COMPUTING CLOUD

Title (de)

LOKALE COMPUTERWOLKE, DIE MIT EINER ÖFFENTLICHEN COMPUTERWOLKE INTERAKTIVE IST

Title (fr)

NUAGE INFORMATIQUE LOCAL QUI EST INTERACTIF AVEC UN NUAGE INFORMATIQUE PUBLIC

Publication

EP 4133695 A4 20240508 (EN)

Application

EP 21785519 A 20210406

Priority

- US 202016840648 A 20200406
- US 202016840708 A 20200406
- US 2021025943 W 20210406

Abstract (en)

[origin: WO2021207191A1] A home computing system (cloud) integrates a protocols gateway, WiFi router, cloud server, and mass storage device to support one or more Internet of Things (IoT) devices, possibly with different connectively protocols, in a local environment such as a residential home. The home computing cloud often reduces the amount of data traffic sent to a public computing cloud by locally processing collected device data rather than by sending the device data to the public computer cloud for processing. The home computing cloud may download an appropriate data analytic model from the public computing cloud, locally train (for example, reinforcement learning) the model, and locally execute the trained model to obtain prediction information from collected IoT device data. The home computing cloud also allows direct access of the connected IoT devices by user applications via the internet, through a protocols gateway and an IoT message translator.

IPC 8 full level

H04L 12/28 (2006.01); **H04L 67/125** (2022.01); **H04L 67/565** (2022.01); **H04L 69/08** (2022.01); **H04L 69/18** (2022.01); **G06N 3/08** (2023.01)

CPC (source: EP)

H04L 12/2814 (2013.01); **H04L 12/2816** (2013.01); **H04L 67/125** (2013.01); **H04L 67/565** (2022.05); **H04L 69/08** (2013.01); **H04L 69/18** (2013.01); **G06N 20/00** (2019.01)

Citation (search report)

- [XP] EP 3644581 A1 20200429 - KOREA ELECTRONICS TECHNOLOGY [KR]
- [IA] US 2018181868 A1 20180628 - CHEW YEN HSIANG [MY]
- [IA] WO 2019134802 A1 20190711 - SIGNIFY HOLDING BV [NL]
- [A] US 2018285767 A1 20181004 - CHEW YEN HSIANG [MY]
- See also references of WO 2021207179A1

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 2021207191 A1 20211014; CN 115668868 A 20230131; CN 115918035 A 20230404; EP 4133694 A1 20230215; EP 4133694 A4 20240612; EP 4133695 A1 20230215; EP 4133695 A4 20240508; WO 2021207179 A1 20211014

DOCDB simple family (application)

US 2021025958 W 20210406; CN 202180035780 A 20210406; CN 202180037421 A 20210406; EP 21783966 A 20210406; EP 21785519 A 20210406; US 2021025943 W 20210406