Title (en)
BLOCKCHAIN MACHINE NETWORK ACCELERATION ENGINE

Title (de)
BESCHLEUNIGUNGSMASCHINE FÜR BLOCKCHAIN-MASCHINENNETZWERK

Title (fr)
MOTEUR D'ACCÉLÉRATION DE RÉSEAU DE MACHINE À CHAÎNE DE BLOCS

Publication
EP 4237984 A1 20230906 (EN)

Application
EP 21743337 A 20210622

Priority
- US 202017083195 A 20201028
- US 202017084942 A 20201030
- US 2021038528 W 20210622

Abstract (en)
[origin: WO2022093335A1] Embodiments herein describe a hardware accelerator (e.g., a network acceleration engine) for a blockchain machine or node. The hardware accelerator parses packets containing separate components of a block of transactions to generate data to perform a validation process. To avoid the latency that comes with using software, the embodiments herein describe a protocol processor in the hardware accelerator that parses the packets and prepares the data so it can be consumed by downstream components in the accelerator without software intervention. These downstream components can then perform a validation operation to validate one or more transactions before those transactions are committed (i.e., added) to a ledger of a permissioned blockchain.

IPC 8 full level
G06F 21/76 (2013.01); **H04L 9/32** (2006.01)

CPC (source: EP KR)
G06F 21/64 (2013.01 - KR); **G06F 21/76** (2013.01 - EP KR); **H04L 9/3239** (2013.01 - EP KR); **H04L 9/50** (2022.05 - EP KR)

Citation (search report)
See references of WO 2022093335A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022093335 A1 20220505; EP 4237984 A1 20230906; JP 2023547817 A 20231114; KR 20230097062 A 20230630

DOCDB simple family (application)
US 2021038528 W 20210622; EP 21743337 A 20210622; JP 2023523289 A 20210622; KR 20237016456 A 20210622