Title (en)

ELECTRONIC TRADING SYSTEM AND METHOD BASED ON POINT-TO-POINT MESH ARCHITECTURE

Title (de)

ELEKTRONISCHES HANDELSSYSTEM UND VERFAHREN AUF DER BASIS EINER PUNKT-ZU-PUNKT-MESH-ARCHITEKTUR

Title (fr)

SYSTÈME ET PROCÉDÉ DE NÉGOCIATION ÉLECTRONIQUE BASÉS SUR UNE ARCHITECTURE MAILLÉE POINT À POINT

Publication

EP 4193255 A1 20230614 (EN)

Application

EP 21770090 A 20210805

Priority

- US 202016988491 A 20200807
- US 202016988510 A 20200807
- US 2021044754 W 20210805

Abstract (en)

[origin: WO2022031975A1] An electronic trading system and corresponding method are based on a point-to-point mesh architecture. The electronic trading system comprises a gateway, core compute node, and sequencer. The core compute node performs an electronic trading matching function. The gateway transmits a message to the core compute node via a first direct connection. The gateway transmits the message via a second direct connection to the sequencer which, in turn, transmits a sequence-marked message to the core compute node via a third direct connection. The core compute node determines relative ordering of the message among other messages in the electronic trading system based on the sequence-marked message to complete the electronic trading matching function, deterministically. The gateway, core compute node, sequencer, and respective direct connections form at least a portion of the point-to-point mesh architecture and enable the electronic trading system to perform high-speed, deterministic, electronic trading of financial instruments while exhibiting low latency, fairness, and fault tolerance, among other features.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2022031975A1

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