

Title (en)

SYSTEM AND METHOD FOR CONSENSUS ORDERING OF BROADCAST MESSAGES

Title (de)

SYSTEM UND VERFAHREN ZUR KONSENSREIHUNG VON RUNDFUNKNACHRICHTEN

Title (fr)

SYSTÈME ET PROCÉDÉ DE CONSENSUS DE CLASSEMENT DE MESSAGES DE DIFFUSION

Publication

**EP 3834366 A4 20220427 (EN)**

Application

**EP 19847544 A 20190624**

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- US 2019038724 W 20190624

Abstract (en)

[origin: WO2020033048A1] The system is directed to a plurality of nodes in a network and a process by which the nodes reach a consensus ordering of broadcast messages. For example, one or more nodes proceed by agreeing on an order of two or more broadcast message derived events A and B. If a node sees event A longer than a time period (T6) before seeing event B, then the node outputs "A consensus-before B" as a consensus broadcast ordering. If the node sees the event A and not the event B after waiting at least T6, then the node outputs "A consensus-before B" as a consensus broadcast ordering. However, if the node sees both events A and event B within T6, then the node broadcasts a request for a vote on message ordering, executes a consensus broadcast reception protocol for the votes, and makes an ordering decision based on the votes received.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [XYI] US 6931431 B2 20050816 - CACHIN CHRISTIAN [CH], et al
- [Y] US 6356857 B1 20020312 - QIN S JOE [US], et al
- [Y] US 7957355 B1 20110607 - HEIFERLING MARK J [US], et al
- [A] US 2002091846 A1 20020711 - GARCIA-LUNA-ACEVES J J [US], et al
- See references of WO 2020033048A1

Designated contracting state (EPC)

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