

(19)



(11)

EP 3 465 481 B8

(12)

CORRECTED EUROPEAN PATENT SPECIFICATION

(15) Correction information:

Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 54

(48) Corrigendum issued on:

03.07.2024 Bulletin 2024/27

(45) Date of publication and mention of the grant of the patent:

28.02.2024 Bulletin 2024/09

(21) Application number: **17733609.6**

(22) Date of filing: **19.04.2017**

(51) International Patent Classification (IPC):

G06F 16/00^(2019.01)

(52) Cooperative Patent Classification (CPC):

H04L 9/50; G06F 16/2365; G06F 16/9014; H04L 9/3239

(86) International application number:

PCT/US2017/028225

(87) International publication number:

WO 2017/204944 (30.11.2017 Gazette 2017/48)

(54) **METHOD AND SYSTEM FOR DESYNCHRONIZATION RECOVERY FOR PERMISSIONED BLOCKCHAINS USING BLOOM FILTERS**

VERFAHREN UND SYSTEM ZUR DESYNCHRONISATIONSWIEDERHERSTELLUNG FÜR GESTATTETE BLOCKKETTEN UNTER VERWENDUNG VON BLOOM-FILTERN

PROCÉDÉ ET SYSTÈME DE RÉCUPÉRATION DE DÉSYNCHRONISATION DESTINÉS À DES CHAÎNES DE BLOC AUTORISÉES À L'AIDE DE FILTRES DE BLOOM

(84) Designated Contracting States:

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

(30) Priority: **24.05.2016 US 201615163077**

(43) Date of publication of application:

10.04.2019 Bulletin 2019/15

(60) Divisional application:

23170204.4 / 4 224 780

(73) Proprietor: **Mastercard International Incorporated Purchase, New York 10577 (US)**

(72) Inventor: **DAVIS, Steven, Charles Saint Peters, MO 63376 (US)**

(74) Representative: **Walker-Smith, Samantha Lynelle Zhi Keltie LLP No.1 London Bridge London SE1 9BA (GB)**

(56) References cited:

WO-A1-2016/046820

- **Dr Gavin Wood: "ETHEREUM: A SECURE DECENTRALISED GENERALISED TRANSACTION LEDGER HOMESTEAD DRAFT", , 30 March 2016 (2016-03-30), XP055393071, Retrieved from the Internet: URL:http://web.archive.org/web/20160330220735if_/http://gavwood.com/paper.pdf [retrieved on 2017-07-21]**
- **VUKOLIC MARKO ED - WALTER DIDIMO ET AL: "The Quest for Scalable Blockchain Fabric: Proof-of-Work vs. BFT Replication", 2 May 2016 (2016-05-02), NETWORK AND PARALLEL COMPUTING; [LECTURE NOTES IN COMPUTER SCIENCE; LECT.NOTES COMPUTER], SPRINGER INTERNATIONAL PUBLISHING, CHAM, PAGE(S) 112 - 125, XP047351400, ISSN: 0302-9743 ISBN: 978-3-540-76785-5 [retrieved on 2016-05-01] page 112 - page 125 figure 2**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 3 465 481 B8

- **David Maz: "The Stellar Consensus Protocol: A Federated Model for Internet-level Consensus", Stellar Development Foundation, 25 February 2016 (2016-02-25), XP055393062, Retrieved from the Internet:
URL:<https://www.stellar.org/papers/stellar-consensus-protocol.pdf> [retrieved on 2017-07-21]**