

Title (en)

METHOD FOR INFORMATION RETRIEVAL IN AN ENCRYPTED CORPUS STORED ON A SERVER

Title (de)

VERFAHREN FÜR INFORMATIONENABRUF IN EINEM AUF EINEM SERVER GESPEICHERTEN VERSCHLÜSSELTEN KORPUS

Title (fr)

PROCÉDÉ DE RECHERCHE D'INFORMATIONS DANS UN CORPUS CHIFFRE STOCKÉ SUR UN SERVEUR

Publication

EP 3583518 A1 20191225 (FR)

Application

EP 18706792 A 20180205

Priority

- FR 1751241 A 20170215
- FR 2018050276 W 20180205

Abstract (en)

[origin: CA3050353A1] The invention relates to a method for information retrieval in an encrypted corpus stored on a server, from a digital request calculated on a customer device, containing a sequence of terms, said method comprising the following steps: encryption of said request (20) on a customer computer device (1) and transmission of same to a database (3) management server (1); and homomorphic calculation, on the server, of the encrypted response (41) to the encrypted request (40) recorded on the server (2), characterised in that it comprises an additional requesting step performed on the customer device (1), for adding said identifiers of the data contained in said encrypted response (50) and in the index df_A (13) recorded on the customer device (1); and presentation of the result in an ordered form of the documents, in application of the processing of the previous step. The invention also relates to a method for preparing a requestable base and to a method for information retrieval in an encrypted corpus.

IPC 8 full level

H04L 9/00 (2006.01)

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G06F 21/6227 (2013.01 - US); **H04L 9/008** (2013.01 - EP US); **G06F 2216/11** (2013.01 - US); **G06F 2221/2107** (2013.01 - US)

Citation (examination)

- US 9442980 B1 20160913 - TREPETIN STAN [US], et al
- TANG JUN TANGJ13@MAILS TSINGHUA EDU CN AND TANG JUN_76@163 COM ET AL: "Ensuring Security and Privacy Preservation for Cloud Data Services", ACM COMPUTING SURVEYS, ACM, NEW YORK, NY, US, US, vol. 49, no. 1, 6 June 2016 (2016-06-06), pages 1 - 39, XP058666244, ISSN: 0360-0300, DOI: 10.1145/2906153
- See also references of WO 2018150119A1

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US 2020019723 A1 20200116; WO 2018150119 A1 20180823

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