

## Title (en)

SIMULTANEOUS STATE-BASED CRYPTOGRAPHIC SPLITTING IN A SECURE STORAGE APPLIANCE

## Title (de)

SIMULTANE ZUSTANDSBASIERTE KRYPTOGRAFISCHE TEILUNG BEI EINEM SICHEREN SPEICHERGERÄT

## Title (fr)

PARTAGE CRYPTOGRAPHIQUE SIMULTANÉ BASÉ SUR LES ÉTATS DANS UN APPAREIL DE STOCKAGE SÉCURISÉ

## Publication

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## Application

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- US 27201208 A 20081117
- US 33656208 A 20081217
- US 34250008 A 20081223
- US 33656408 A 20081217
- US 34257508 A 20081223
- US 34252308 A 20081223
- US 33655908 A 20081217
- US 34241408 A 20081223
- US 33656808 A 20081217
- US 34656108 A 20081230
- US 34243808 A 20081223
- US 34657808 A 20081230
- US 34261008 A 20081223
- US 34263608 A 20081223
- US 34254708 A 20081223
- US 33655808 A 20081217
- US 34237908 A 20081223

## Abstract (en)

[origin: WO2010057181A2] Methods and systems for managing data blocks and I/O requests are provided. One method is a method of managing data blocks in a secure storage appliance. The method includes receiving a block of data associated with a volume, the volume associated with a plurality of shares stored on a plurality of physical storage devices, and storing the block of data in a buffer. The method also includes associating the block of data with a state from among a plurality of states, each of the states corresponding to a status of the block of data. The method further includes processing the block of data by performing at least one cryptographic operation on the block of data, and upon completion of processing the block of data, updating the state of the block of data.

## IPC 8 full level

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## Citation (search report)

See references of WO 2010057181A2

## Citation (examination)

- US 2004049687 A1 20040311 - ORSINI RICK L [US], et al
- EP 2189922 A2 20100526 - SANDISK CORP [US], et al
- WO 2008118227 A2 20081002 - UNISYS CORP [US]
- JOHNSON R A: "MLS-Net and SecureParser: A New Method for Securing and Segregating Network Data", INTERNET CITATION, 8 July 2007 (2007-07-08), pages 1 - 8, XP002582437, Retrieved from the Internet <URL:http://www.iiisci.org/journal/CV\$/sci/pdfs/R062GX.pdf> [retrieved on 20100510]

## Cited by

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## DOCDB simple family (application)

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