

Title (en)

APPARATUS AND METHOD FOR ROUTING INFORMATION IN A NON-VOLATILE MEMORY-BASED STORAGE DEVICE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR WEITERLEITUNG VON INFORMATIONEN IN EINER SPEICHERVORRICHTUNG MIT EINEM NICHTFLÜCHTIGEN SPEICHER

Title (fr)

APPAREIL ET PROCÉDÉ DE ROUTAGE D'INFORMATIONS DANS UN DISPOSITIF DE MÉMORISATION BASÉ SUR UNE MÉMOIRE NON VOLATILE

Publication

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Application

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- US 2014065162 W 20141112

Abstract (en)

[origin: WO2015073503A1] Various systems, methods, apparatuses, and computer-readable media for accessing a storage device are described. In certain example embodiments, an active/active fault-tolerant storage device comprising two or more controllers may be implemented. In one aspect, each controller may have two or more processing entities for distributing the processing of the I/O requests. In one embodiment, the configuration of the components, modules and the controller board may be arranged in a manner to enhance heat dissipation, reduce power consumption, spread the power and work load, and reduce latency. In one embodiment, each controller may be coupled to the non-volatile memory (NVM) blades comprising the non-volatile memory (NVM) storage medium. In one example implementation, a standardized protocol, such as the Peripheral Component Interconnect Express protocol may be used for communicating amongst the various components of the controller and also the NVM storage medium.

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

- [X1] US 2002133735 A1 20020919 - MCKEAN BRIAN D [US], et al
- [I] US 2013067123 A1 20130314 - RIZZO JAMES A [US], et al
- [I] US 2013007368 A1 20130103 - STERNS RANDOLPH W [US], et al
- [I] US 2012166699 A1 20120628 - KUMAR PANAKAJ [US], et al
- See references of WO 2015073503A1

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