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(54) Title: METHOD AND DEVICE FOR WRITING STORED DATA INTO STORAGE MEDIUM BASED ON FLASH MEMORY

(54) 发明名称: 在基于闪存的存储介质中写入存储数据的方法和装置

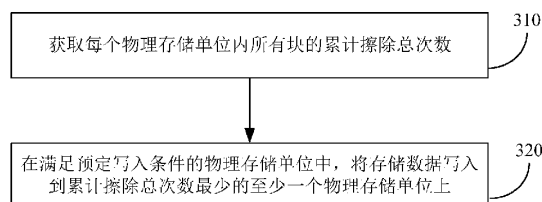


图 3

310 Acquiring the total accumulated number of times all blocks in each physical storage unit are erased
320 In a physical storage unit satisfying a pre-determined writing condition, writing stored data into at least one physical storage unit, the total accumulated number of times same is erased thereof being the smallest

(57) Abstract: A method for writing stored data into a storage medium based on a flash memory, the method being applied to a central control function module for performing writing control over at least two physical storage units. The method comprises: acquiring the total accumulated number of times all blocks in each physical storage unit are erased (310); and in a physical storage unit satisfying a pre-determined writing condition, writing stored data into at least one physical storage unit, the total accumulated number of times same is erased thereof being the smallest (320). By means of the technical solution, balanced erasing and writing among different physical storage units is realised, the case that a single physical storage unit is damaged ahead of time because the physical storage unit is erased and written too many times is avoided, and the stability of a system where the physical storage unit is located can be improved where there is high availability.

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本国际公布:

— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 一种在基于闪存的存储介质中写入存储数据的方法, 应用在对至少两个物理存储单位进行写入控制的中控功能模块上, 包括: 获取每个物理存储单位内所有块的累计擦除总次数(310); 在满足预定写入条件的物理存储单位中, 将存储数据写入到累计擦除总次数最少的至少一个物理存储单位上(320)。上述技术方案在不同的物理存储单位之间实现了均衡擦写, 避免了对单个物理存储单位擦写过多导致的该物理存储单位的提前损坏, 在高可用性场景中能够提高所在系统的稳定性。