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(54) **Title:** METHOD AND APPARATUS FOR CREATING TABLESPACE, STORAGE MEDIUM, AND ELECTRONIC DEVICE

(54) 发明名称: 一种创建表空间的方法、装置、存储介质及电子设备

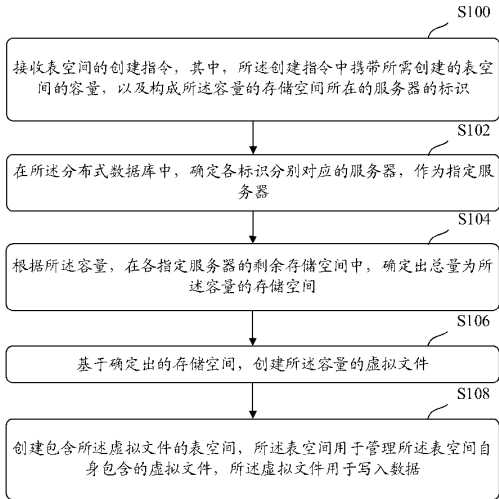


图 1

- S100 Receive a tablespace creation instruction, wherein the tablespace creation instruction carries the capacity of a tablespace to be created, and identifiers of servers where storage spaces reaching said capacity are located
- S102 In a distributed database, determine the servers respectively corresponding to the identifiers as specified servers
- S104 According to said capacity, among the remaining storage spaces of the specified servers, determine storage spaces of which the total capacity is said capacity
- S106 Create a virtual file of said capacity on the basis of the determined storage spaces
- S108 Create a tablespace containing the virtual file, the tablespace being used to manage the virtual file contained in the tablespace, the virtual file being used to write data

(57) **Abstract:** Disclosed are a method and apparatus for creating a tablespace, a storage medium, and an electronic device. The method comprises: receiving a tablespace creation instruction; according to identifiers of servers carried in the creation instruction, in a distributed database, determining the servers corresponding to the identifiers as specified servers; according to the capacity of a tablespace to be created and the remaining storage spaces of the specified servers carried in the creation instruction, determining storage spaces of which the total capacity is said capacity; creating a virtual file of said capacity on the basis of the determined storage spaces; and creating a tablespace containing the virtual file. In the method, according to the remaining storage spaces of the specified servers in the distributed database and the capacity of the tablespace to be created, the virtual file is created on the basis of the determined storage

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spaces of which the total capacity is said capacity, so that the remaining storage spaces of originally dispersed specified servers can be unified by means of the virtual file, and a tablespace containing the virtual file can be created, so as to achieve the function of a cross-server tablespace under a share-nothing architecture.

(57) 摘要: 公开了一种创建表空间的方法、装置、存储介质和电子设备, 该方法包括: 接收表空间的创建指令, 根据创建指令中携带的服务器的标识, 在分布式数据库中, 确定标识对应的服务器作为指定服务器, 根据创建指令中携带的所需创建的表空间的容量和指定服务器的剩余存储空间, 确定出总量为该容量的存储空间。基于确定出的存储空间, 创建该容量的虚拟文件, 创建包含该虚拟文件的表空间。本方法中根据分布式数据库中的指定服务器的剩余存储空间和所需创建的表空间的容量, 基于确定出的总量为该容量的存储空间创建虚拟文件, 可以使原本分散的各指定服务器的剩余存储空间通过虚拟文件统一起来, 从而可创建包含虚拟文件的表空间, 以在share-nothing架构下实现跨服务器的表空间的功能。