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- (81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA,

(54) Title: VOLUME MOUNTING METHOD, VOLUME ACCESS METHOD, AND DEVICE AND STORAGE MEDIUM

(54) 发明名称: 存储卷挂载与访问方法、设备及存储介质

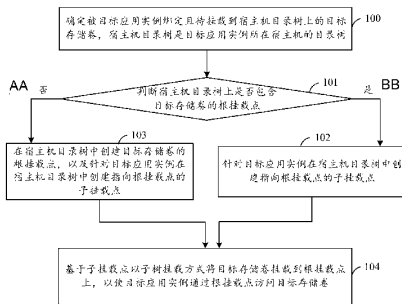


图 1

- 100 Determine a target volume, which is bound to a target application instance and is to be mounted on a host machine directory tree, wherein the host machine directory tree is a directory tree of a host machine where the target application instance is located
- 101 Determine whether the host machine directory tree includes a root mount point of the target volume
- 102 For the target application instance, create, in the host machine directory tree, a mount sub-point that points to the root mount point
- 103 Create the root mount point of the target volume in the host machine directory tree, and for the target application instance, create, in the host machine directory tree, a mount sub-point that points to the root mount point
- 104 On the basis of the mount sub-point, mount the target volume on the root mount point in a sub-tree mounting manner, such that the target application instance accesses the target volume by means of the root mount point
- AA No
- BB Yes

(57) Abstract: Provided in the embodiments of the present application are a volume mounting method, a volume access method, and a device and a storage medium. In the embodiments of the present application, for a volume which is bound to an application instance, the volume is mounted on a host machine directory tree in a sub-tree mounting manner, that is, the host machine directory tree comprises a root mount point of the volume and a mount sub-point that points to the root mount point, such that the application instance can access the volume by means of the root mount point on the host machine directory tree, thereby achieving the purpose of using, by means of the volume, a storage system of a host machine as a storage facility for realizing data sharing and persistence of the application instance. Furthermore, in the manner of mounting the volume on a sub-tree, when the volume is bound to a plurality of application instances, the plurality of application instances all access the volume by means of the root mount point, such that the same cache space can be shared, thereby saving on memory resources of the host machine.

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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: 本申请实施例提供一种存储卷挂载与访问方法、设备及存储介质。在本申请实施例中，针对被应用实例绑定的存储卷，以子树挂载方式将存储卷挂载到宿主机目录树上，即在宿主机目录树上包括存储卷的根挂载点和指向根挂载点的子挂载点，使得应用实例能够通过宿主机目录树上的根挂载点访问存储卷，进而达到通过存储卷使用宿主机的存储系统作为应用实例实现数据共享和持久化的存储设施的目的。进一步，以子树挂载存储卷的方式，在存储卷被多个应用实例绑定的情况下，多个应用实例均通过根挂载点访问存储卷，能够共享相同的缓存空间，节约宿主机的内存资源。