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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,

(54) Title: ANTI-FREEZING METHOD AND DEVICE FOR BRAKING DEVICE

(54) 发明名称: 一种制动装置防冻结方法及装置

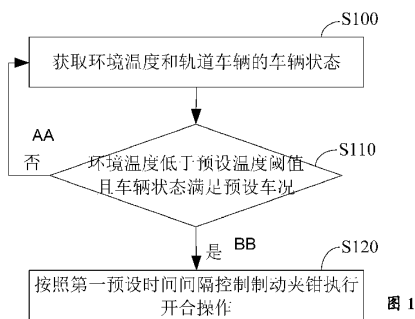


图 1

- S100 Obtain an ambient temperature and a vehicle state of a rail vehicle
- S110 Is the ambient temperature lower than a preset temperature threshold and does the vehicle state meet a preset vehicle condition?
- S120 Control a brake caliper to perform opening and closing operations according to a first preset time interval
- AA No
- BB Yes

(57) Abstract: An anti-freezing method for a braking device, which is applied to the technical field of rail vehicles. The method comprises: obtaining an ambient temperature and a vehicle state of a rail vehicle; if the ambient temperature is lower than a preset temperature threshold and the vehicle state meets a preset vehicle condition, controlling a brake caliper to perform opening and closing operations according to a first preset time interval, said opening and closing operations comprising: opening the brake caliper for a second preset time and then closing same. According to the described anti-freezing method, the process of controlling the opening and

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closing operations of the brake caliper is cyclically performed using the first preset time interval as a period, so that the brake caliper is in an action state of cyclically opening and closing in a severe cold climate, which thereby prevents the brake caliper from being frozen in a state for a long time, and ensures that the rail vehicle may still start normally in the severe cold climate. Also provided is an anti-freezing device for a braking device.

(57) 摘要: 一种制动装置防冻结方法, 应用于轨道车辆技术领域, 该方法获取环境温度和轨道车辆的车辆状态, 若环境温度低于预设温度阈值且车辆状态满足预设车况, 按照第一预设时间间隔控制制动夹钳执行开合操作, 开合操作包括: 制动夹钳张开第二预设时间后闭合。该方法控制制动夹钳张开、闭合的操作过程是以第一预设时间间隔为周期循环地进行的, 使得制动夹钳在严寒的气候中, 处于循环的张开、闭合的动作状态, 避免制动夹钳长时间处于一种状态而被冻结, 保证轨道车辆在严寒的气候中仍然能够正常启动。还提供了一种制动装置防冻结装置。