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(54) Title: VEHICLE BRAKING METHOD AND DEVICE, AND TRAIN

(54) 发明名称: 一种车辆制动方法、装置及列车

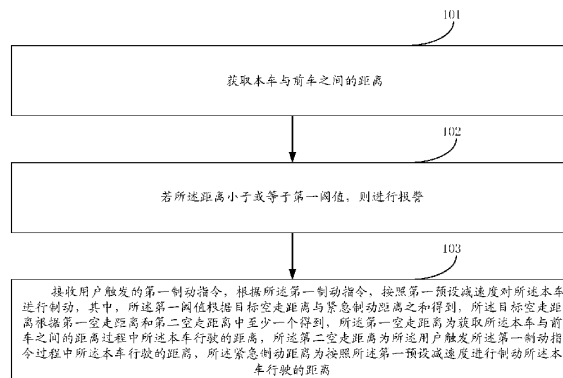


图 1

- 101 Obtain the distance between a vehicle and a front vehicle
102 Provide an alarm if the distance is smaller than or equal to a first threshold
103 Receive a first braking instruction triggered by a user, and brake the vehicle at a first preset deceleration according to the first braking instruction, wherein the first threshold is obtained according to the sum of a target idling stopping distance and an emergency braking distance, the target idling stopping distance is obtained according to at least one of a first idling stopping distance and a second idling stopping distance, the first idling stopping distance is the traveling distance of the vehicle in the process of obtaining the distance between the vehicle and the front vehicle, the second idling stopping distance is the traveling distance of the vehicle in the process of the user triggering the first braking instruction, and the emergency braking distance is the traveling distance for braking the vehicle at the first preset deceleration

(57) Abstract: A vehicle braking method and device (200), and a train. The braking method comprises: obtaining the distance between a vehicle and a front vehicle (101); providing an alarm if the distance is smaller than or equal to a first threshold (102); receiving a first braking instruction triggered by a user, and braking the vehicle at a first preset deceleration according to the first braking instruction, wherein the first threshold is obtained according to the sum of a target idling stopping distance and an emergency braking distance, the target idling stopping distance is obtained according to at least one of a first idling stopping distance and a second idling stopping

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distance, the first idling stopping distance is the traveling distance of the vehicle in the process of obtaining the distance between the vehicle and the front vehicle, the second idling stopping distance is the traveling distance of the vehicle in the process of the user triggering the first braking instruction, and the emergency braking distance is the traveling distance for braking the vehicle at the first preset deceleration (103). The beneficial effects are that: a braking threshold is determined by considering the distance measuring capacity and the braking performance of a train, the rear-end collision risk with a front vehicle can be effectively reduced, and the running safety of the train is improved.

(57) 摘要: 一种车辆制动方法、装置(200)和列车, 制动方法包括: 获取本车与前车之间的距离(101); 若距离小于或等于第一阈值, 则进行报警(102); 接收用户触发的第一制动指令, 根据第一制动指令, 按照第一预设减速度对本车进行制动, 其中, 第一阈值根据目标空走距离与紧急制动距离之和得到, 目标空走距离根据第一空走距离和第二空走距离中至少一个得到, 第一空走距离为获取本车与前车之间距离的过程中本车行驶的距离, 第二空走距离为用户触发第一制动指令过程中本车行驶的距离, 紧急制动距离为按照第一预设减速度进行制动本车行驶的距离(103)。有益效果: 通过兼顾测距能力和列车的制动性能来确定制动的阈值, 能够有效降低与前车的追尾风险, 提高列车运行的安全性。