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(54) Title: VEHICLE KEY LOCATING METHOD AND APPARATUS, AND VEHICLE AND STORAGE MEDIUM

(54) 发明名称: 车辆钥匙定位方法、装置、车辆及存储介质

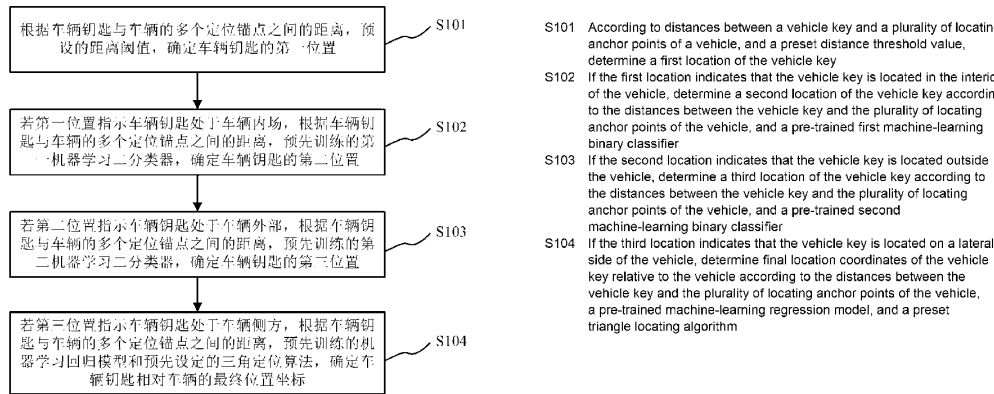


图 2

(57) Abstract: Provided in the present application are a vehicle key locating method and apparatus, and a vehicle and a storage medium. The method comprises: according to distances between a vehicle key and a plurality of locating anchor points of a vehicle, and a preset distance threshold value, determining a first location of the key, which first location indicates that the key is located in the vicinity of the vehicle; according to the distances and a pre-trained first machine-learning binary classifier, determining a second location of the key, which second location indicates that the key is located outside of the vehicle; according to the distances and a pre-trained second machine-learning binary classifier, determining a third location of the key, which third location indicates that the key is located on a lateral side of the vehicle; and according to the distances, a pre-trained machine-learning regression model and a preset triangle locating algorithm, determining final location coordinates of the key relative to the vehicle. A vehicle region is divided into areas of different levels, and a final location is determined in different ways, thereby realizing precise locating of a vehicle key.

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SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ,
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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: 本申请提供一种车辆钥匙定位方法、装置、车辆及存储介质, 根据车辆钥匙与车辆的多个定位
锚点之间的距离, 预设的距离阈值, 确定钥匙的第一位置指示钥匙处于车辆近场, 则根据上述距离,
预先训练的第一机器学习二分类器, 确定钥匙的第二位置指示钥匙处于车辆外部, 根据上述距离, 预
先训练的第二机器学习二分类器, 确定钥匙的第三位置指示钥匙处于车辆侧方, 根据上述距离, 预先
训练的机器学习回归模型和预先设定的三角定位算法, 确定钥匙相对车辆的最终位置坐标。通过将车
域划分不同层级区域以及通过不同方式确定最终位置, 实现了车辆钥匙的精准定位。