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

(54) 发明名称: 车辆钥匙定位方法、装置及存储介质

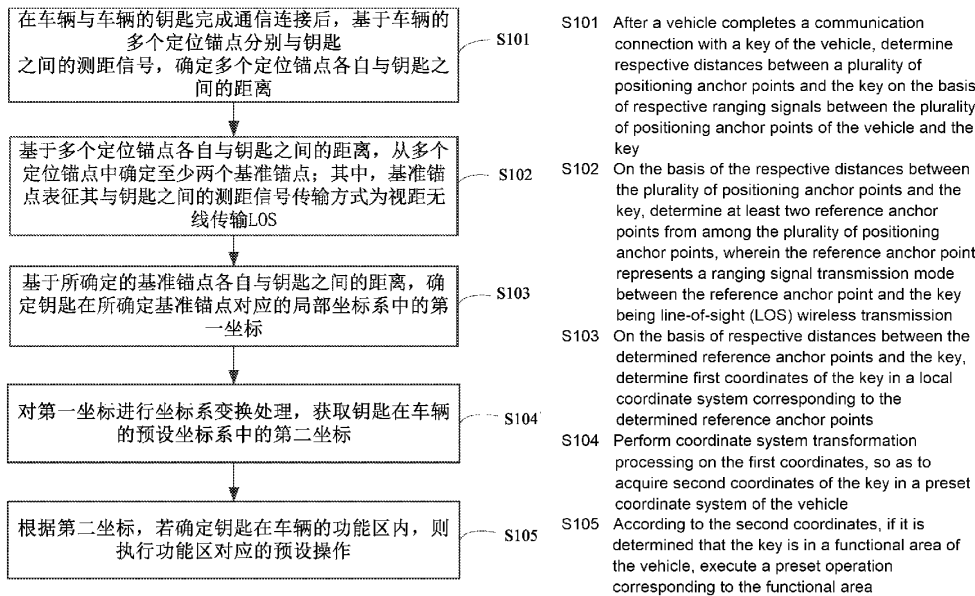


图 3

(57) Abstract: A vehicle key positioning method, and an apparatus and a storage medium. The method comprises: after a vehicle completes a communication connection with a key of the vehicle, determining respective distances between a plurality of positioning anchor points and the key on the basis of respective ranging signals between the plurality of positioning anchor points of the vehicle and the key; on the basis of the respective distances between the plurality of positioning anchor points and the key, determining at least two reference anchor points from among the plurality of positioning anchor points, wherein the reference anchor point represents a

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ranging signal transmission mode between the reference anchor point and the key being line-of-sight (LOS) wireless transmission; on the basis of respective distances between the determined reference anchor points and the key, determining first coordinates of the key in a local coordinate system corresponding to the determined reference anchor points; performing coordinate system transformation processing on the first coordinates, so as to acquire second coordinates of the key in a preset coordinate system of the vehicle; and according to the second coordinates, if it is determined that the key is in a functional area of the vehicle, executing a preset operation corresponding to the functional area. By means of the method, the problem of positioning being inaccurate in key positioning methods in the prior art is solved.

(57) 摘要: 一种车辆钥匙定位方法、装置及存储介质, 其中, 方法包括: 在车辆与车辆的钥匙完成通信连接后, 基于车辆的多个定位锚点分别与钥匙之间的测距信号, 确定多个定位锚点各自与钥匙之间的距离; 基于多个定位锚点各自与钥匙之间的距离, 从多个定位锚点中确定至少两个基准锚点; 基准锚点表征其与钥匙之间的测距信号传输方式为视距无线传输LOS; 基于所确定的基准锚点各自与钥匙之间的距离, 确定钥匙在所确定基准锚点对应的局部坐标系中的第一坐标; 对第一坐标进行坐标系变换处理, 获取钥匙在车辆的预设坐标系中的第二坐标; 根据第二坐标, 若确定钥匙在车辆的功能区内, 则执行功能区对应的预设操作。该方法解决了现有技术中钥匙的定位方法存在的定位不精准的问题。