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江省宁波市杭州湾新区滨海二路 818 号, Zhejiang 315336 (CN)。

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(72) 发明人:陈国安(CHEN, Guoan); 中国浙江省宁波市
滨江区江陵路1760号, Zhejiang 310051 (CN)。

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(74) 代理人: 北京同立钧成知识产权代理有限公司(LEADER PATENT & TRADEMARK FIRM);
中国北京市海淀区西直门北大街32号枫蓝国际A座8F-6, Beijing 100082 (CN)。

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(71) 申请人:浙江吉利控股集团有限公司(ZHEJIANG
GEELY HOLDING GROUP CO., LTD.) [CN/CN]; 中
国浙江省杭州市滨江区江陵路 1760 号,
Zhejiang 310051 (CN)。吉利汽车研究院(宁
波)有限公司(GEELY AUTOMOBILE RESEARCH
INSTITUTE (NINGBO) CO., LTD) [CN/CN]; 中国浙

(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

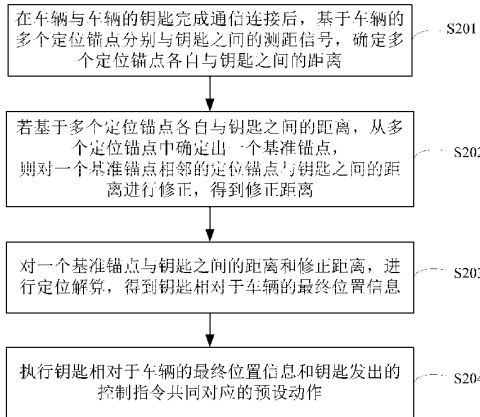


图 7

S201 After a vehicle completes communication
connection with a key of the vehicle, determine the
distance between each of a plurality of positioning
anchor points and the key on the basis of a ranging
signal between each of the plurality of positioning
anchor points of the vehicle and the key

S202 If a reference anchor point is determined from
the plurality of positioning anchor points on the basis
of the distance between each of the plurality of
positioning anchor points and the key, correct the
distance between a positioning anchor point adjacent
to the reference anchor point and the key, so as to
obtain a corrected distance

S203 Perform positioning calculation on the
distance between the reference anchor point and the
key, and the corrected distance, so as to obtain final
position information of the key relative to the vehicle

S204 Execute a preset action corresponding to
both the final position information of the key relative to
the vehicle and a control instruction sent by the
key

(57) Abstract: Provided in the present application are a vehicle key positioning method, and an apparatus and a storage medium. The method comprises: on the basis of a ranging signal between each of a plurality of positioning anchor points of a vehicle and a key of the vehicle, determining the distance between each of the plurality of positioning anchor points and the key; if a reference anchor point is determined from the plurality of positioning anchor points on the basis of the distance between each of the plurality of positioning anchor points and the key, correcting the distance between a positioning anchor point adjacent to the reference anchor point and the key, so as to obtain a corrected distance, wherein the reference anchor point represents that a transmission mode of a ranging signal between the reference anchor point and the key is line of sight (LOS) wireless transmission; performing positioning calculation on the distance between the reference anchor point and the key, and the corrected distance, so as to obtain final position information of the key relative to the vehicle; and executing a preset action corresponding to both the final position information of the key relative to

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the vehicle and a control instruction sent by the key. The method in the present application solves the problem in the prior art of key positioning methods being inaccurate in positioning.

(57) 摘要: 本申请提供一种车辆钥匙定位方法、装置及存储介质, 其中, 方法包括: 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; 若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出一个基准锚点, 则对一个基准锚点相邻的定位锚点与钥匙之间的距离进行修正, 得到修正距离; 其中, 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; 对一个基准锚点与钥匙之间的距离和修正距离, 进行定位解算, 得到钥匙相对于车辆的最终位置信息; 执行钥匙相对于车辆的最终位置信息和钥匙发出的控制指令共同对应的预设动作。本申请的方法, 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。