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(71) 申请人: 阿里巴巴集团控股有限公司 (ALIBABA GROUP HOLDING LIMITED) [—/CN]; 开曼群岛大开曼资本大厦一座四层 847 号邮箱, Grand Cayman (KY)。

(72) 发明人: 王楠(WANG, Nan); 中国浙江省杭州市余杭区文一西路 969 号 3 号楼 5 楼阿里巴巴集团法务部, Zhejiang 311121 (CN)。 何强(HE, Qiang); 中国浙江省杭州市余杭区文一西路 969 号 3 号楼 5 楼阿里巴巴集团法务部, Zhejiang 311121 (CN)。 杜志军(DU, Zhijun); 中国浙江省杭州市余杭区文一西路 969 号 3 号楼 5 楼阿里巴巴集团法务部, Zhejiang 311121 (CN)。

(74) 代理人: 北京三友知识产权代理有限公司 (BEIJING SANYOU INTELLECTUAL PROPERTY AGENCY LTD.); 中国北京市金融街 35 号国际企业大厦 A 座 16 层, Beijing 100033 (CN)。

(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,

(54) **Title:** METHOD FOR DETERMINING CHANGE IN DISTANCE, LOCATION PROMPTING METHOD AND APPARATUS AND SYSTEM THEREOF

(54) 发明名称: 确定距离变化的方法、位置提示方法及其装置和系统

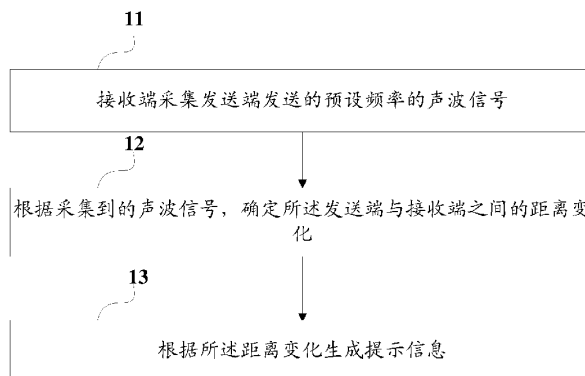


图 1

- 11 A receiving terminal acquiring acoustic signals at a preset frequency sent by a transmitting terminal
12 According to the acquired acoustic signals, determining a change in distance between the transmitting terminal and the receiving terminal
13 Generating prompt information according to the change in distance

(57) **Abstract:** A method for determining a change in distance, a location prompting method and an apparatus and a system thereof. The method for determining a change in distance comprises: a receiving terminal (112) acquiring acoustic signals at a preset frequency sent by a transmitting terminal (113) (step 11); according to the acquired acoustic signals, determining a change in distance between the transmitting terminal (113) and the receiving terminal (112) (step 12). The method for determining a change in distance provided herein can determine a change in distance between two terminals even when a relatively small positioned distance exists between the

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transmitting terminal (113) and the receiving terminal (112). The method also can generate corresponding prompt information according to the change in distance between two terminals, and the prompt information is used to prompt a user about a change in distance between the two terminals, and guide the users to move in a direction which decreases the distance between the two terminals; when a relatively small distance exists between two positioned users, the chance of the users finding each other is increased.

(57) 摘要: 一种确定距离变化的方法、位置提示方法及其装置和系统。该确定距离变化的方法包括: 接收端 (112) 采集发送端 (113) 发送的预设频率的声波信号 (步骤11); 根据采集到的声波信号, 确定发送端 (113) 与接收端 (112) 之间的距离变化 (步骤12); 提供的确定距离变化的方法, 在发送端 (113) 和接收端 (112) 之间的定位距离相对较小时, 也可以确定出两端之间的距离变化。此方法还可以根据两端距离变化生成相应的提示信息, 该提示信息用于提示用户这两端之间的距离变化, 指引用户向着两端之间距离减小的方向移动, 当定位的两用户之间的距离较小时, 提供的方法找到彼此的几率增大。