Title (en)
AREA DIVISION AND PATH FORMING METHOD AND APPARATUS FOR SELF-MOVING DEVICE AND AUTOMATIC WORKING SYSTEM

Title (de)
VERFAHREN UND VORRICHTUNG ZUR FLÄCHENTEILUNG UND BAHNBILDUNG FÜR SELBSTFAHRENDE VORRICHTUNG UND AUTOMATISCHES ARBEITSSYSTEM

Title (fr)
PROCÉDÉ ET APPAREIL DE DIVISION DE ZONE ET DE FORMATION DE TRAJET DE DISPOSITIF AUTOMOTEUR ET SYSTÈME DE TRAVAIL AUTOMATIQUE

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Abstract (en)
[origin: WO2021164738A1] This specification provides a movement area division method and apparatus for a smart self-moving device, a movement path forming method and apparatus for a smart self-moving device, and an automatic working system. In an embodiment, a preset recognition model is first invoked, and image data that is obtained from an electronic map database and includes a target working area and electronic map data of correlated coordinate information is recognized and divided, to recognize a plurality of working areas and provide boundary figures of these working areas. A corresponding global positioning system (GPS) reference point is marked within the boundary of each working area. Regular movement paths of the self-moving device are generated based on the reference points and boundary figures. These movement paths cover all division areas. The self-moving device autonomously completes walking according to the division areas and the set paths.

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