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79%

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¹ Refer to [this study](#) for additional detail on how patent search applications were evaluated.

Before becoming a DWPI record, a patent publication is:



Translated into English from 40 original languages



Normalized using machine learning and manual review, applying standardized, Latin character company and inventor names



Indexed by technology category using 322 classes across 21 sections



Enhanced with a descriptive title provided by an editor with subject-matter expertise



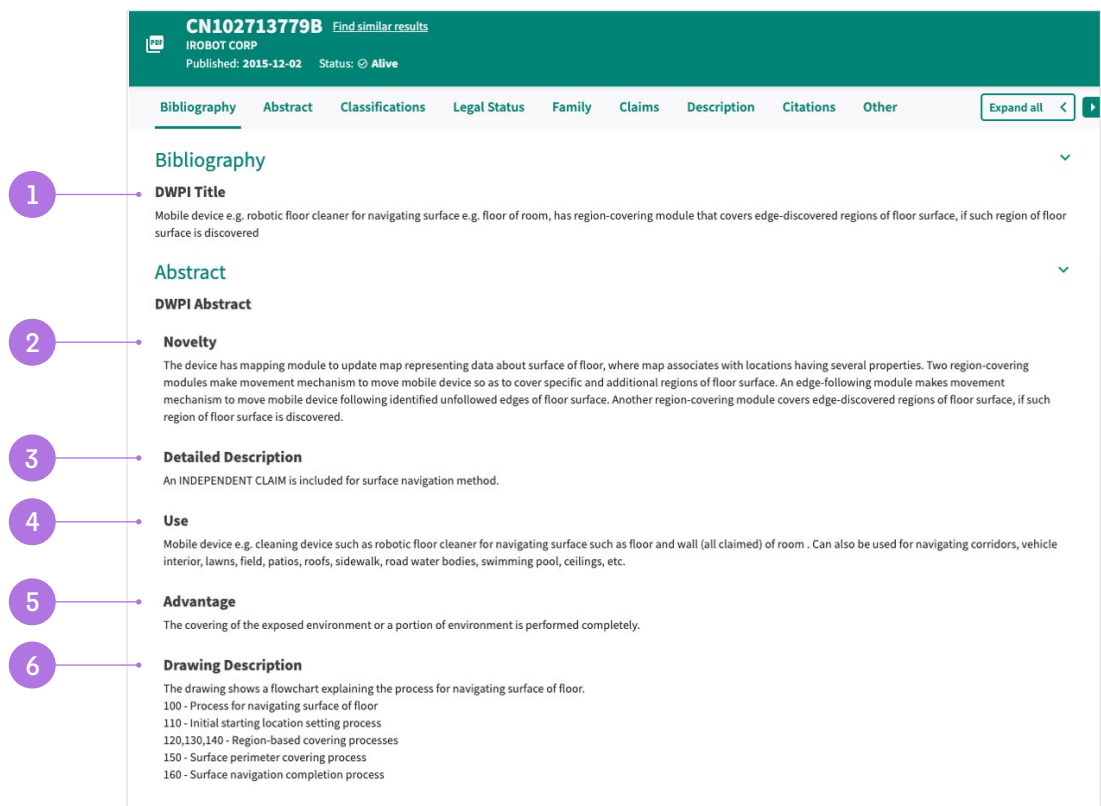
Summarized with standardized abstracts that clearly state novelty, use, and advantage



Curated by inventive feature using over 27,000 codes applied by a patent editor



Figure 1: Every DWPI summary includes editorially-enhanced content in clearly displayed fields.



- 1

Title

Describes the invention and its use in standard language to make it easier to retrieve the document with keyword searches and assess its relevance.
- 2

Novelty

Identifies the unique inventive feature that characterizes the invention and distinguishes it from existing technology.
- 3

Description

Describes the inventive feature and all independent claims.
- 4

Use

Outlines all uses and industrial applications of the invention and specifically highlights the main application of the patent.
- 5

Advantage

Describes how the novelty is an improvement over prior art.
- 6

Other fields

Including Technology Focus, Activity, Mechanism of Action, Description of Drawing, Wider Disclosure, Specific Substances and more to help you quickly discern key information.

Enhanced, normalized patent data with broad regional and technology coverage

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- Standardized assignee and inventor names provided using machine learning and human review processes. Names are normalized from 40 original languages, checked for transliteration errors and verified against proprietary inventor and assignee dictionaries.
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invention-level
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800+

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corrected every week

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
Monitor competitors,
streamline collaboration, and
accelerate opposition, assertion
and FTO decisions.

DWPI APIs and data feeds

Integrate high quality DWPI data to power your organization's AI models, BI tools, dashboards and internal applications.

Figure 2: DWPI records provide translated, descriptive titles and abstracts, normalized and corrected data, and value-added information to enhance and improve the original patent publication.

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 IROBOT CORP
Published: 2015-12-02Status: © Alive

BibliographyAbstractClassificationsLegal StatusFamilyClaimsDescriptionCitationsOtherExpand all

Bibliography

DWPI Title

Mobile device e.g. robotic floor cleaner for navigating surface e.g. floor of room, has region-covering module that covers edge-discovered regions of floor surface, if such region of floor surface is discovered

Abstract

DWPI Abstract

Novelty

The device has mapping module to update map representing data about surface of floor, where map associates with locations having several properties. Two region covering modules make movement mechanism to move mobile device so as to cover specific and additional regions of floor surface. An edge-following module makes movement mechanism to move mobile device following identified unfollowed edges of floor surface. Another region-covering module covers edge-discovered regions of floor surface, if such region of floor surface is discovered.

Detailed Description

An INDEPENDENT CLAIM is included for surface navigation method.

Use

Mobile device e.g. cleaning device such as robotic floor cleaner for navigating surface such as floor and wall (all claimed) of room . Can also be used for navigating corridors, vehicle interior, lawns, field, patios, roofs, sidewalks, road water bodies, swimming pool, ceilings, etc.

Advantage

The covering of the exposed environment or a portion of environment is performed completely.

Drawing Description

The drawing shows a flowchart explaining the process for navigating surface of floor.
100 - Process for navigating surface of floor
110 - Initial starting location setting process
120,130,140 - Region-based covering processes
150 - Surface perimeter covering process
160 - Surface navigation completion process

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(74) 专利代理机构 中咨专利商标代理有限公司

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(73) 专利权人 艾罗伯特公司

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地址 美国麻萨诸塞州贝德福德

US 2008/0276408 A1, 2008.11.13,

(72) 发明人 迈克尔·S·斯托特

审查员 朱艳华

加布里埃尔·弗朗西斯·布里松

恩里科·迪贝尔纳多

保罗·皮尔金南 迪拉吉·戈尔

詹姆斯·菲利普·凯撒

迈克尔·J·胜利

权利要求书1页 说明书10页 附图24页

(54) 发明名称

用于通过自导型机器人完全覆盖表面的方法和系统

(57) 摘要

本发明公开一种机器人，被配置为在一表面上移动，所述机器人包括：移动机构；逻辑地图，其表示关于该表面的数据并且包括期间多个位置与边界的一个或多个属性相关联、初始化学块，被配置为建立包括初始位置和初始方向的初始姿势、区域覆盖模块，被配置为引起机器人移动从而覆盖区域、边缘跟踪模块，被配置为引起机器人跟随未被跟踪的边缘，控制模块，被配置为在至少部分地基于初始姿势的至少一部分限定的第一区域上调用区域覆盖，以调用边缘跟踪，并且调用区域覆盖引起起始模块将已被跟踪边缘标记为已被跟踪，并且引起在边缘跟踪期间发现的区域上调用第三区域覆盖。

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DWPI record example

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