

The world's patent data, curated and simplified

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79%

more relevant patent keyword search results with DWPI

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DWPI classifications let you find a comprehensive set of patents related to a specific technology, regardless of source jurisdiction and without having to sort through irrelevant publications.

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



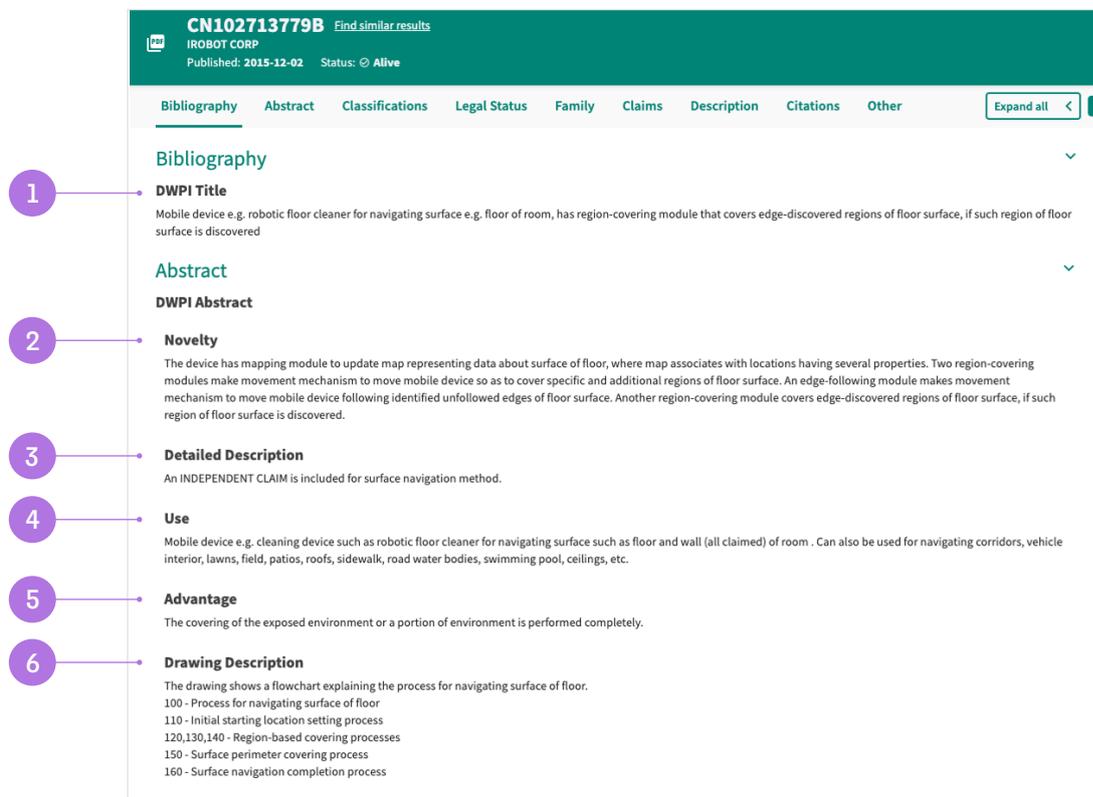
Summarized with standardized abstracts that clearly state novelty, use, and advantage



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



Figure 1: Every DWPI abstract 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

- Global coverage across all regions, including jurisdictions in Asia-Pacific with high growth rates of patent applications and grants.
- Standard editorial rules ensure patent titles and abstracts use consistent, industry-specific language.
- 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.
- Abstract coverage includes utility models and emerging technologies.

Additional value-added information included standard with DWPI



Derwent Manual Codes

Quickly find a comprehensive set of global patents for a specific technology category — over 27,000 codes assigned to each DWPI record based on the patent's application(s) and inventive feature.



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DWPI by the numbers:

113M+

global patent publications
covered by DWPI abstracts

58M+

invention-level
DWPI families

800+

priority data errors
corrected every week

88K+

new DWPI abstracts created
on average every week

61

sources, including 59
patent-issuing authorities
and 2 literature sources

900+

patent editors write abstracts
based on their technical
domain expertise

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DWPI API

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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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Bibliography Abstract Classifications Legal Status Family Claims Description Citations Other

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, laems, 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

DWPI record example

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(54) 发明名称 用于通过自主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在期间将多个位置与观察到的一个或多个属性相关联;初始化模块,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映射模块将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进行第三区域覆盖。

Original publication

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