

Title (en)

IDENTIFYING A CATEGORY OF FLOORING

Title (de)

IDENTIFIZIERUNG EINER KATEGORIE VON FUSSBÖDEN

Title (fr)

IDENTIFICATION D'UNE CATÉGORIE DE REVÊTEMENT DE SOL

Publication

**EP 4378362 A1 20240605 (EN)**

Application

**EP 22211190 A 20221202**

Priority

EP 22211190 A 20221202

Abstract (en)

A method and system for determining on which of a plurality of categories of flooring (130), each having a different hardness, a nozzle (111) of a vacuum cleaner (110) is positioned. Data representative of a torque load of a motor that rotates a brush in the nozzle is obtained and processed to generate a trimmed estimator of a parameter that measures variation in the data. A determination that the nozzle is positioned on the softest category of flooring is made in response to the trimmed estimator breaching a predetermined threshold.

IPC 8 full level

**A47L 9/04** (2006.01); **A47L 9/28** (2006.01)

CPC (source: EP)

**A47L 9/0466** (2013.01); **A47L 9/2826** (2013.01); **A47L 9/2831** (2013.01); **A47L 9/2847** (2013.01)

Citation (search report)

- [A] EP 4059402 A1 20220921 - TALENTONE HONG KONG LTD [HK]
- [A] WO 2016096046 A1 20160623 - ELECTROLUX AB [SE]
- [A] EP 2457486 A2 20120530 - SAMSUNG ELECTRONICS CO LTD [KR]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4378362 A1 20240605**; WO 2024115235 A1 20240606

DOCDB simple family (application)

**EP 22211190 A 20221202**; EP 2023082743 W 20231122