

Title (en)

ELECTRONIC DEVICE, METHOD AND COMPUTER PROGRAM FOR OLFACTORY ASSESSMENT OF A PRODUCT STATE

Title (de)

ELEKTRONISCHE VORRICHTUNG, VERFAHREN UND RECHNERPROGRAMM ZUR OLFAKTORISCHEN BEWERTUNG EINES PRODUKTZUSTANDES

Title (fr)

DISPOSITIF ÉLECTRONIQUE, PROCÉDÉ ET PROGRAMME D'ORDINATEUR POUR L'ESTIMATION OLFACTIVE D'UN ÉTAT D'UN PRODUIT

Publication

**EP 4088111 A1 20221116 (FR)**

Application

**EP 21704850 A 20210108**

Priority

- FR 2000226 A 20200110
- FR 2021050028 W 20210108

Abstract (en)

[origin: WO2021140303A1] This electronic device (10) for assessing the state of a product that can change through emission of volatile organic compounds comprises olfactory sensors (18) which are designed to provide signals representative of the presence of volatile organic compounds in the ambient air close to the product, and a processor (36, 42, 44, 46, 48) for processing the signals provided in order to produce a signature that is representative of the state of the product. It further comprises a memory (50) for storing a reference signature which is representative of exposure of the olfactory sensors (18) to a reference humid environment in which the product is not present, and a computer (36, 54) which computes a value for the similarity between the signature representative of the state of the product and the reference signature in order to provide a product transformation index value from the computed similarity value.

IPC 8 full level

**G01N 33/00** (2006.01); **G01N 21/552** (2014.01); **G01N 33/02** (2006.01); **G01N 33/12** (2006.01)

CPC (source: EP KR US)

**G01N 21/274** (2013.01 - US); **G01N 21/553** (2013.01 - EP KR); **G01N 21/554** (2013.01 - US); **G01N 33/0031** (2013.01 - EP KR); **G01N 33/0047** (2013.01 - KR); **G01N 33/0062** (2013.01 - US); **G01N 33/0068** (2024.05 - US); **G01N 33/12** (2013.01 - EP)

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2021140303 A1 20210715**; CN 115136002 A 20220930; EP 4088111 A1 20221116; FR 3106212 A1 20210716; FR 3106212 B1 20221014; JP 2023510821 A 20230315; KR 20220123711 A 20220908; US 2023032568 A1 20230202

DOCDB simple family (application)

**FR 2021050028 W 20210108**; CN 202180015274 A 20210108; EP 21704850 A 20210108; FR 2000226 A 20200110; JP 2022542457 A 20210108; KR 20227027491 A 20210108; US 202117791768 A 20210108