

Title (en)

APPARATUS AND METHOD FOR COLLECTING A BREATH SAMPLE USING A METERING DEVICE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM SAMMELN EINER ATEMPROBE UNTER VERWENDUNG EINER MESSVORRICHTUNG

Title (fr)

APPAREIL ET PROCÉDÉ PERMETTANT DE COLLECTER UN ÉCHANTILLON D'HALEINE À L'AIDE D'UN DISPOSITIF DE DOSAGE

Publication

EP 4110181 A4 20240320 (EN)

Application

EP 21761561 A 20210128

Priority

- US 202016805142 A 20200228
- US 202016805156 A 20200228
- US 202016805161 A 20200228
- US 202016805176 A 20200228
- US 202016805187 A 20200228
- CA 2021050088 W 20210128

Abstract (en)

[origin: WO2021168542A1] An apparatus and method for collecting a breath sample are provided. The apparatus has a breath input interface configured to receive exhaled breath, a first conduit system connected to the breath input interface, a valve configured to control fluid communication between the first conduit system and at least one breath sample storage device configured to store a breath sample, an air circulation system configured to circulate air through the first conduit system upon completion of a first received exhaled breath, and at least one controller configured to control the valve upon completion of the first received exhaled breath at least partially based on a humidity level in the first conduit system.

IPC 8 full level

A61B 5/097 (2006.01); **A61B 5/08** (2006.01); **A61B 5/083** (2006.01); **A61B 5/087** (2006.01); **A61B 10/00** (2006.01); **A61M 39/22** (2006.01); **G01N 1/22** (2006.01); **G01N 33/497** (2006.01)

CPC (source: EP)

A61B 5/082 (2013.01); **A61B 5/0836** (2013.01); **A61B 5/087** (2013.01); **A61B 5/097** (2013.01); **A61B 10/00** (2013.01); **A61B 10/0096** (2013.01); **A61B 2010/0087** (2013.01); **A61M 39/22** (2013.01); **A61M 2205/3334** (2013.01); **G01N 33/497** (2013.01)

Citation (search report)

- [XY] US 2018214050 A1 20180802 - PURVES CHRIS [CA]
- [Y] US 5971937 A 19991026 - EKSTROEM JAN PETRI [FI]
- [Y] US 2020029859 A1 20200130 - KAWAMOTO TORU [JP], et al
- [Y] US 2018153439 A1 20180607 - MILLER VICTOR A [US], et al
- [XI] US 2014228699 A1 20140814 - CAUSEVIC ELVIR [US], et al
- [Y] US 2006200037 A1 20060907 - FALASCO MARIANNE R [US]
- See also references of WO 2021168541A1

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

DOCDB simple family (publication)

WO 2021168542 A1 20210902; AU 2021226138 A1 20221020; AU 2021226139 A1 20221020; AU 2021227720 A1 20221020; AU 2021227721 A1 20221020; AU 2021228377 A1 20221020; AU 2021228378 A1 20221020; CA 3169775 A1 20210902; CA 3169777 A1 20210902; CA 3169780 A1 20210902; CA 3169784 A1 20210902; CA 3169788 A1 20210902; CA 3169789 A1 20210902; EP 4110177 A1 20230104; EP 4110177 A4 20240320; EP 4110178 A1 20230104; EP 4110178 A4 20240327; EP 4110179 A1 20230104; EP 4110179 A4 20240320; EP 4110180 A1 20230104; EP 4110180 A4 20240327; EP 4110181 A1 20230104; EP 4110181 A4 20240320; EP 4110182 A1 20230104; EP 4110182 A4 20240320; JP 2023516019 A 20230417; JP 2023516020 A 20230417; JP 2023516022 A 20230417; JP 2023516023 A 20230417; JP 2023516024 A 20230417; JP 2023516025 A 20230417; WO 2021168540 A1 20210902; WO 2021168541 A1 20210902; WO 2021168543 A1 20210902; WO 2021168544 A1 20210902; WO 2021168545 A1 20210902

DOCDB simple family (application)

CA 2021050089 W 20210128; AU 2021226138 A 20210128; AU 2021226139 A 20210128; AU 2021227720 A 20210128; AU 2021227721 A 20210128; AU 2021228377 A 20210128; AU 2021228378 A 20210128; CA 2021050087 W 20210128; CA 2021050088 W 20210128; CA 2021050090 W 20210128; CA 2021050091 W 20210128; CA 2021050092 W 20210128; CA 3169775 A 20210128; CA 3169777 A 20210128; CA 3169780 A 20210128; CA 3169784 A 20210128; CA 3169788 A 20210128; CA 3169789 A 20210128; EP 21759776 A 20210128; EP 21759861 A 20210128; EP 21759949 A 20210128; EP 21760418 A 20210128; EP 21761561 A 20210128; EP 21761687 A 20210128; JP 2022552153 A 20210128; JP 2022552154 A 20210128; JP 2022552156 A 20210128; JP 2022552157 A 20210128; JP 2022552158 A 20210128; JP 2022552159 A 20210128