

Title (en)

METHODS OF DESIGNING AND FABRICATING CUSTOMIZED DENTAL CARE FOR PARTICULAR USERS

Title (de)

VERFAHREN ZUM ENTWERFEN UND HERSTELLEN VON INDIVIDUELL ANGEPASSTER ZAHNPFLEGE FÜR BESTIMMTE BENUTZER

Title (fr)

PROCÉDÉS DE CONCEPTION ET DE CRÉATION DE SOINS DENTAIRE PERSONNALISÉS POUR DES UTILISATEURS PARTICULIERS

Publication

EP 4370337 A1 20240522 (EN)

Application

EP 22753872 A 20220718

Priority

- US 202163222921 P 20210716
- US 202217865363 A 20220714
- US 2022037493 W 20220718

Abstract (en)

[origin: WO2023288136A1] The various embodiments described herein include methods, devices, and systems for customizing dental care. In one aspect, personalized toothbrush devices are 3-D printed for a plurality of users. A 3-D dental model of a respective user's mouth is obtained, and a configuration for a mouthpiece of a respective personalized toothbrush device is determined. The respective personalized toothbrush device is 3-D printed, and includes a top cleaning tray, a bottom cleaning tray, and a set of cleaning elements, each customized based at least in part on the 3-D dental model of the respective user's mouth. Each personalized toothbrush device is 3-D printed for each respective user of the plurality of users, and is different from every other user's personalized toothbrush device.

IPC 8 full level

B33Y 80/00 (2015.01); **A46B 9/02** (2006.01); **A46B 9/04** (2006.01)

CPC (source: EP)

A46B 9/026 (2013.01); **A46B 9/045** (2013.01); **B33Y 80/00** (2014.12); **A46B 2200/1066** (2013.01)

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 2023288136 A1 20230119; CA 3225819 A1 20230119; EP 4370337 A1 20240522

DOCDB simple family (application)

US 2022037493 W 20220718; CA 3225819 A 20220718; EP 22753872 A 20220718