

## Title (en)

ORAL CARE COMPOSITION WITH AMMONIUM ALKYL SULFONATE OR CARBONATE COMPONENTS FOR TREATING CARIES

## Title (de)

MUNDPFLEGEZUSAMMENSETZUNG MIT AMMONIUMALKYLSULFONAT ODER CARBONATKOMPONENTEN ZUR BEHANDLUNG VON KARIES

## Title (fr)

COMPOSITION DE SOIN BUCCAL CONTENANT DES COMPOSANTS DE SULFONATE OU DE CARBONATE D'ALKYLE D'AMMONIUM POUR LE TRAITEMENT DES CARIES

## Publication

**EP 4034077 A1 20220803 (EN)**

## Application

**EP 20781404 A 20200923**

## Priority

- EP 19199740 A 20190926
- IB 2020058877 W 20200923

## Abstract (en)

[origin: WO2021059151A1] The invention relates to an oral care composition comprising certain ammonium alkyl sulfonate or carbonate components. The ammonium alkyl sulfonate or carbonate components are useful or to be used in a method of treating caries by reducing the lactic acid release of lactic acid releasing bacteria in an oral biofilm in the mouth of a human being or animal. The ammonium alkyl sulfonate or carbonate components are characterized by the following formula:  $R_1-S_1-m-S_2-n-S_3-o-N(CH_3)_{2+-(CH_2)_p-A}$  with  $A = SO_3^-, CO_2^-$ ;  $m = 0, 1$ ;  $n = 0, 1$ ;  $o = 0, 1, 2, 3$ ;  $p = 1, 2, 3, 4$ ;  $R_1 = C_6-24$  alkyl (linear, branched), wherein the linear or branched alkyl moieties may also form cyclic structures and wherein one or more hydrogen atoms of the alkyl moiety may be replaced by X, with  $X = OH, O, Cl, Br, F$ ;  $S_1 = aryl$ ;  $S_2 = CO(O), C(O)NH, O$ ;  $S_3 = CH_2, CHX$  with X being independently selected from OH, Cl, Br or F. The invention also relates to a kit of parts comprising Part A comprising the ammonium alkyl sulfonate or carbonate component, Part B comprising water and/or a carrier component, and optionally Part C comprising an application device.

## IPC 8 full level

**A61K 8/41** (2006.01); **A61K 8/46** (2006.01); **A61Q 11/00** (2006.01)

## CPC (source: EP)

**A61K 8/416** (2013.01); **A61K 8/466** (2013.01); **A61Q 11/00** (2013.01)

## Citation (search report)

See references of WO 2021059151A1

## Cited by

US11957536B2; US11510758B2; US11510757B2; US11517405B2

## 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

## DOCDB simple family (publication)

**WO 2021059151 A1 20210401**; EP 4034077 A1 20220803

## DOCDB simple family (application)

**IB 2020058877 W 20200923**; EP 20781404 A 20200923