Title (en)

ANTIMICROBIAL BENZOIC ACID DENTAL GYPSUM COMPOSITION ENHANCED WITH ADDITION OF LOW CONCENTRATION OF IPBC

Title (de)

MIT ZUSATZ EINER GERINGEN KONZENTRATION VON IPBC VERBESSERTE ANTIMIKROBIELLE BENZOESÄURE-DENTALGIPSZUSAMMENSETZUNG

Title (fr)

COMPOSITION DE PLÂTRE DENTAIRE À BASE D'ACIDE BENZOÏQUE ANTIMICROBIEN AMÉLIORÉE PAR L'AJOUT D'UNE FAIBLE CONCENTRATION D'IPBC

Publication

EP 3419555 A4 20191023 (EN)

Application

EP 17756937 A 20170223

Priority

- TH 1601001009 A 20160225
- TH 2017000013 W 20170223

Abstract (en)

[origin: WO2017146657A2] A primary embodiment of the invention is a composition for an antimicrobial dental gypsum comprising a calcined gypsum, an additive, an antimicrobial agent and an antimicrobial enhancing substance. The antimicrobial agent comprises a benzoic acid and/or a benzoic derivative. The antimicrobial agent is in the range of 0.001 to 0.02% by weight of the composition. The antimicrobial enhancing substance comprises IPBC in the range of 0.0001 to 0.01% by weight of the composition. The benzoic derivative can be sodium benzoate, potassium benzoate and/or calcium benzoate. The additive can be a thickener, a retardant, an accelerator, a defoamer, a pigment, a stabilizer and/or a dye in the range of 2.5 to 3.5 percent by weight of the composition. The antimicrobial enhancing substance can further comprises citric acid, propionic acid, tartaric acid, acetic acid, oxalic acid, malic acid, salicylic acid, lactic acid, gluconic acid, hydroxyacetic acid and/or methylisothiazolinone.

IPC 8 full level

A61C 13/34 (2006.01); **A61K 6/06** (2006.01); **A61K 6/10** (2006.01); **A61K 6/90** (2020.01)

CPC (source: EP KR)

A61C 13/20 (2013.01 - KR); **A61C 13/34** (2013.01 - EP KR); **A61K 6/00** (2013.01 - KR); **A61K 6/858** (2020.01 - EP); **A61K 6/90** (2020.01 - EP); **A61L 2/16** (2013.01 - KR)

Citation (search report)

- [Y] US 6946427 B2 20050920 - LUTZ PATRICK JAY [US], et al
- [YD] SROISIRI THAWEBOON ET AL: "Type IV Dental Stone Incorporated with Antimicrobial Agents and its Physical Properties", ISSN 1022-6680, vol. 898, 1 February 2014 (2014-02-01), CH, pages 292 - 295, XP055621779, ISSN: 1022-6680, DOI: 10.4028/www.scientific.net/AMR.898.292
- See references of WO 2017146657A2

Designated contracting state (EPC)

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DOCDB simple family (application)

TH 2017000013 W 20170223; EP 17756937 A 20170223; JP 2018541204 A 20170223; KR 20187026734 A 20170223