Title (en)

STANNOUS ORAL CARE COMPOSITIONS

Title (de)

ZINNHALTIGE MUNDPFLEGEZUSAMMENSETZUNGEN

Title (fr)

COMPOSITIONS D'HYGIÈNE BUCCALE STANNEUSES

Publication

EP 2068814 A1 20090617 (EN)

Application

EP 06809475 A 20061002

Priority

IB 2006053598 W 20061002

Abstract (en)

[origin: WO2008041055A1] Disclosed are oral compositions comprising a stannous ion source, a polyvalent cation source and a mineral surface active agent, said compositions providing enhanced therapeutic efficacy derived from stannous fluoride and/or other stannous salt, including antimicrobial effects, control of breath malodor, control of dental plaque growth and metabolism, reduced gingivitis, decreased progression to periodontal disease, reductions in dentinal hypersensitivity and reduced coronal and root dental caries. The aforementioned benefits are provided along with significant improvements compared to conventional stannous containing compositions, including: 1) reduced levels of dental staining; T) reduced astringency thereby improving aesthetic characteristics of the compositions; 3) reduction in dental calculus formation, and 4) enhanced stability, bioavailability and thus, efficacy of stannous. The mineral surface active agents are agents that are substantive to mineral surfaces such as teeth and have chelating activity for polyvalent cations including stannous (Sn+2), zinc (Zn+2), copper (Cu+2), aluminum (Al+3), iron (Fe+2, Fe +3), strontium (Sr+2), calcium (Ca+2), barium (Ba+2), magnesium (Mg+2), and manganese (Mn+2). Preferred mineral surface-active agents include polymers or copolymers containing phosphate, phosphonate, or carboxy groups. The compositions may also comprise a fluoride ion source and may be formulated as single phase or dual phase compositions.

IPC 8 full level

A61K 8/19 (2006.01); **A61K 8/24** (2006.01); **A61K 8/27** (2006.01); **A61Q 11/00** (2006.01)

CPC (source: EP)

A61K 8/19 (2013.01); **A61K 8/20** (2013.01); **A61K 8/21** (2013.01); **A61K 8/23** (2013.01); **A61K 8/24** (2013.01); **A61K 8/26** (2013.01); **A61K 8/27** (2013.01); **A61K 8/36** (2013.01); **A61K 8/362** (2013.01); **A61K 8/365** (2013.01); **A61K 8/8164** (2013.01); **A61P 1/02** (2017.12); **A61Q 11/00** (2013.01); A61K 9/0063 (2013.01); A61K 2800/88 (2013.01)

Citation (search report)

See references of WO 2008041055A1

Cited by

US11213466B2; US10350151B2; US11344486B2; US11690791B2; US12005076B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2008041055 A1 20080410; AU 2006349144 A1 20080410; AU 2006349144 B2 20130620; AU 2006349144 C1 20131031; BR PI0622151 A2 20140708; BR PI0622151 B1 20220607; CA 2663913 A1 20080410; CN 101511327 A 20090819; EP 2068814 A1 20090617; JP 2010505760 A 20100225; MX 2009003557 A 20090415; RU 2009111321 A 20101110; RU 2469700 C2 20121220

DOCDB simple family (application)

IB 2006053598 W 20061002; AU 2006349144 A 20061002; BR PI0622151 A 20061002; CA 2663913 A 20061002; CN 200680055850 A 20061002; EP 06809475 A 20061002; JP 2009529784 A 20061002; MX 2009003557 A 20061002; RU 2009111321 A 20061002