

Title (en)

Composition for water closets with a continuous action

Title (de)

Zusammensetzung für Wasserklosetts mit Dauerwirkung

Title (fr)

Composition pour WC avec action continue

Publication

**EP 1967578 A1 20080910 (EN)**

Application

**EP 08101704 A 20080218**

Priority

IT MI20070356 A 20070223

Abstract (en)

A description follows of a composition for water closets with a continuous action comprising a detergent component and an active biological agent, characterized in that the active biological agent consists of gram-positive micro-organisms and/or biological agents capable of producing said micro-organisms in a concentration ranging from 10<sup>4</sup> to 10<sup>12</sup> cfu/g, said micro-organisms belonging to the species *Bacillus subtilis*, *Bacillus licheniformis*, *Bacillus sphaericus*, *Bacillus thuringiensis* and/or *Paenicillium camemberti*. The enzymatic action produced by these micro-organisms on the one hand integrates and on the other extends the detergent action which can be attributed to the surface-active agents present with a more effective action on the dirt and extended to the whole basin of the WC.

IPC 8 full level

**C11D 3/38** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

**C11D 3/38** (2013.01); **C11D 3/381** (2013.01); **C11D 17/0056** (2013.01)

Citation (search report)

- [X] WO 03002704 A1 20030109 - SPARTAN CHEMICAL COMPANY INC [US], et al
- [X] EP 0245560 A1 19871119 - SYBRON CHEMICALS [US]
- [X] WO 03064755 A2 20030807 - LIFE SCIENCE TGO SRL [BB], et al
- [X] GB 2362814 A 20011205 - HINMAN ANTHONY PHILIP [GB]
- [X] US 5863882 A 19990126 - LIN JIAN-ER [US], et al
- [X] GB 2335925 A 19991006 - CHEMIPHASE LIMITED [GB]
- [X] WO 03018734 A1 20030306 - TREYCO SUPPLY INC [US], et al

Cited by

EP2759590A1; CN113913251A; GB2484134A; GB2484134B; EA037468B1; EA037468B9; GB2495989A; GB2495989B; BE1021640B1; WO2010130541A1; US8801864B2; WO2016170479A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 1967578 A1 20080910**; IT MI20070356 A1 20080824

DOCDB simple family (application)

**EP 08101704 A 20080218**; IT MI20070356 A 20070223