

Title (en)

Cleaning block for the cistern of flushing toilets.

Title (de)

Reinigungsblock für den Wasserkasten von Spültoiletten.

Title (fr)

Bloc de nettoyage pour le bac à eau de toilettes.

Publication

EP 0268967 A2 19880601 (DE)

Application

EP 87116866 A 19871116

Priority

DE 3640090 A 19861124

Abstract (en)

[origin: US4820449A] A cleaning block for the tank of flush toilets comprising: 10 to 30% by weight of monoalkyl sulfate, Na salt, 5 to 40% by weight of fatty acid alkanolamide, and 15 to 60% by weight of a water-soluble inorganic alkali salt, and optionally calcium-complexing carboxylic acids or alkali salts thereof, perfume, dye and other auxiliaries. The block is distinguished by a particularly long useful life, by uniform dissolving behavior and by high cleaning power. A method for use and process for manufacture are also afforded.

Abstract (de)

Der Reinigungsblock besteht aus 10 bis 30 Gew.-% Monoalkylsulfat-Na-Salz, 5 bis 40 Gew.-% Fettsäurealkanolamid und 15 bis 60 Gew.-% wasserlöslichem anorganischem Alkalisalz, sowie gegebenenfalls Calcium komplexierenden Carbonsäuren oder deren Alkalisalzen, Parfüm, Farbstoff u. a. Hilfsstoffen. Er zeichnet sich durch besonders lange Standzeit, gleichmäßiges Abspülverhalten und hohe Reinigungsleistung aus.

IPC 1-7

C11D 1/14; **C11D 1/52**; **C11D 1/65**; **C11D 3/04**

IPC 8 full level

C11D 1/14 (2006.01); **C11D 1/52** (2006.01); **C11D 1/65** (2006.01); **C11D 3/02** (2006.01); **C11D 3/04** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)

C11D 1/523 (2013.01 - EP US); **C11D 1/652** (2013.01 - EP US); **C11D 3/046** (2013.01 - EP US); **C11D 17/0056** (2013.01 - EP US); **C11D 1/14** (2013.01 - EP US)

Cited by

EP2316914A1; ITMI20091874A1; DE4337032C1; US5939372A; DE10313777A1; DE19648788A1; EP0844303A3; EP2987850A1; CN107001983A; WO2004084697A1; WO9910470A1; US10287529B2; US6521578B1; US6683035B1; WO2016026777A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0268967 A2 19880601; **EP 0268967 A3 19900613**; **EP 0268967 B1 19920624**; AT E77647 T1 19920715; DE 3640090 A1 19880601; DE 3780003 D1 19920730; ES 2032423 T3 19930216; GR 3005752 T3 19930607; US 4820449 A 19890411

DOCDB simple family (application)

EP 87116866 A 19871116; AT 87116866 T 19871116; DE 3640090 A 19861124; DE 3780003 T 19871116; ES 87116866 T 19871116; GR 920402083 T 19920923; US 12469387 A 19871124