

Title (en)

Detergent composition with improved soil removal ability, process for its production and use of a suitable polycarboxylate therefor.

Title (de)

Waschmittelzusammensetzung mit verbessertem Schmutztragevermögen, Verfahren zu dessen Herstellung und Verwendung eines geeigneten Polycarboxylats hierfür.

Title (fr)

Composition détergente avec une capacité améliorée d'enlèvement de taches, procédé de sa fabrication et utilisation d'un polycarboxylate approprié pour cela.

Publication

EP 0609777 A2 19940810 (DE)



Application

EP 94101210 A 19940127



Priority

DE 4303320 A 19930205

Abstract (en)

2.1. Besides the main builder zeolite A, low-phosphate and phosphate-free detergents and cleaning agents require so-called co-builders, which increase the effectiveness of the detergents. Use of a novel co-builder is intended to decrease the secondary washing effects such as greying and encrustation. 2.2. In addition to the customary components such as surfactant, calcium-binding silicate, etc., the novel detergent contains at least 1% by weight of a polycarboxylate having the schematic structure (X, Y, Z), in which X is  Y is  and Z is $-(F)q-$. These carboxylates can be prepared from acrolein and, if desired, one or more comonomers by means of oxidising free radical donors without hydrolysing conditions and/or without subsequent Cannizzaro reaction. The novel co-builders show improvements in all basic detergent properties compared with co-builders conventionally used. 2.3. Detergent, detergent for delicate articles, colour detergent, liquid detergent, compact detergent.

Abstract (de)

Das neue Waschmittel enthält neben den üblichen Komponenten wie Tensid, calciumbindendes Silikat, etc. mindestens 1 Gew.-% eines Polycarboxylats mit der schematischen Struktur (X,Y,Z), worin X für  Y für  und Z für $-(F)q-$ steht. Diese Carboxylate lassen sich aus Acrolein und ggf. einem oder mehreren Comonomeren mittels oxidierender Radikalspender ohne verseifende Bedingungen und/oder ohne anschließender Cannizzaro-Reaktion herstellen.

IPC 1-7

C11D 3/37; C11D 11/00; C11D 11/02

IPC 8 full level

C11D 3/12 (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP US)

C11D 3/128 (2013.01 - EP US); **C11D 3/3761** (2013.01 - EP US)

Cited by

DE19518620A1; DE19518620C2; WO9710322A1; WO2010109164A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

EP 0609777 A2 19940810; **EP 0609777 A3 19960515**; DE 4303320 A1 19940811; DE 4303320 C2 19951221; US 5494488 A 19960227

DOCDB simple family (application)

EP 94101210 A 19940127; DE 4303320 A 19930205; US 19150694 A 19940204