

Title (en)

Linear viscoelastic aqueous liquid detergent compositions, especially for automatic dishwashers, or improved high temperature stability.

Title (de)

Lineare viskoelastische wässrig-flüssige Detergenezusammensetzungen, insbesondere für Geschirrspülautomaten, oder mit verbesserter Stabilität bei erhöhter Temperatur.

Title (fr)

Compositions détergentes liquides aqueuses à visco-élasticité linéaire, notamment pour lave-vaisselle automatique, ou à stabilité améliorée à température élevée.

Publication

EP 0446761 A1 19910918 (EN)

Application

EP 91103284 A 19910305

Priority

US 49300390 A 19900313

Abstract (en)

Automatic dishwasher detergent composition is formulated as a linear viscoelastic, pseudoplastic, gel-like aqueous product of exceptionally good physical stability, low bottle residue, low cup leakage, and improved cleaning performance. Linear viscoelasticity and pseudoplastic behavior is attributed by incorporation of cross-linked high molecular weight polycarboxylate acid type thickener. Potassium to sodium weight ratios of at least 1/1 minimize amount of undissolved solid particles to further contribute to stability and pourability. Stearic acid or other higher fatty acid mixture or salt further improves physical stability. Use of potassium tripolyphosphate in place of tetrapotassium pyrophosphate reduces formation of crystal growth when the product is subjected to elevated temperatures, such as 100 DEG F. <IMAGE>

IPC 1-7

C11D 3/06; **C11D 3/37**; **C11D 3/395**

IPC 8 full level

C11D 3/06 (2006.01); **C11D 3/20** (2006.01); **C11D 3/37** (2006.01); **C11D 3/395** (2006.01)

CPC (source: EP)

C11D 3/06 (2013.01); **C11D 3/2079** (2013.01); **C11D 3/3765** (2013.01); **C11D 3/3956** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0446761 A1 19910918; AU 632221 B2 19921217; AU 7291291 A 19910919; CA 2038023 A1 19910914; GR 1000851 B 19930217; GR 910100120 A 19920630; IE 910817 A1 19911009; IL 97427 A0 19920621; MY 109088 A 19961130; NO 910964 D0 19910312; NO 910964 L 19910916; NZ 237301 A 19920925; PL 289391 A1 19911202; PT 96998 A 19911031

DOCDB simple family (application)

EP 91103284 A 19910305; AU 7291291 A 19910313; CA 2038023 A 19910312; GR 910100120 A 19910313; IE 81791 A 19910312; IL 9742791 A 19910304; MY PI19910377 A 19910311; NO 910964 A 19910312; NZ 23730191 A 19910304; PL 28939191 A 19910312; PT 9699891 A 19910311