

Title (en)

Solid cast warewashing composition.

Title (de)

Feste geformte Geschirrspülmittelzusammensetzung.

Title (fr)

Composition détergente solide, moulée pour la vaisselle.

Publication

EP 0307587 A2 19890322 (EN)

Application

EP 88111894 A 19880723

Priority

US 8492387 A 19870812

Abstract (en)

Solid cast detergent-containing articles are produced for use in automatic washing machines. A liquid detergent composition is cast into a mold where it is allowed to solidify. The cast detergent composition includes alkali metal metasilicate, alkali metal condensed phosphate, an encapsulated bleaching source, and water for hydration. The composition optionally further includes a dye, a perfume, a surfactant, a defoamer, an additional sequestering agent such as an alkali metal salt of a polyacrylic compound, a neutral soluble salt such as an alkali metal sulphate or an alkali metal chloride, an alkali compound such as an alkali metal hydroxide, an alkali metal carbonate, an alkali metal bicarbonate, an alkali metal sesquicarbonate, an alkali metal borate, or mixtures thereof.

IPC 1-7

C11D 3/06; **C11D 3/08**; **C11D 3/39**

IPC 8 full level

C11D 3/06 (2006.01); **C11D 3/08** (2006.01); **C11D 3/10** (2006.01); **C11D 3/395** (2006.01); **C11D 3/60** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

C11D 3/06 (2013.01); **C11D 3/08** (2013.01); **C11D 3/395** (2013.01); **C11D 17/0039** (2013.01); **C11D 17/0052** (2013.01)

Cited by

EP0481547A1; EP0646166A4; EP1160312A1; US5200236A; US5230822A; DE4440142A1; EP0711826A3; DE4440142C2; US5474698A; CN1056177C; US5258132A; AU657239B2; EP0875558A3; US11274380B2; WO0005331A1; WO9518211A1; WO9012081A1

Designated contracting state (EPC)

BE DE FR GB IT SE

DOCDB simple family (publication)

EP 0307587 A2 19890322; **EP 0307587 A3 19900110**; **EP 0307587 B1 19950913**; AU 1461988 A 19890216; AU 605573 B2 19910117; CA 1304649 C 19920707; DE 3854462 D1 19951019; DE 3854462 T2 19960515; JP H07103399 B2 19951108; JP S6451498 A 19890227

DOCDB simple family (application)

EP 88111894 A 19880723; AU 1461988 A 19880414; CA 566280 A 19880509; DE 3854462 T 19880723; JP 16520088 A 19880704