

Title (en)

STABLE, BIFUNCTIONAL, PHOSPHATE-FREE DETERGENT TABLETS FOR USE IN DISHWASHING MACHINES.

Title (de)

STABILE, BIFUNKTIONELLE, PHOSPHATFREIE REINIGUNGSMITTELTABLETTEN FÜR DAS MASCHINELLE GESCHIRRSPÜLEN.

Title (fr)

COMPRIMES DETERGENTS STABLES, BIFONCTIONNELS ET SANS PHOSPHATE POUR LAVE-VAISSELLE.

Publication

EP 0523095 B1 19950215 (DE)

Application

EP 91906795 A 19910325

Priority

- DE 4010524 A 19900402
- EP 9100568 W 19910325

Abstract (en)

[origin: WO9115568A1] Stable, bifunctional, phosphate-free detergent tablets for use in dishwashing machines contain silicate, low-foam nonionic tensides, organic complex builders, bleaches and water. The organic complex builder is a granular alkaline detergent additive, consisting of (a) sodium salts of at least one (meth)acrylic acid homopolymer or copolymer, (b) sodium carbonate, (c) sodium sulphate, and (d) water. The silicate is anhydrous sodium metasilicate and its penta- and/or nonahydrate.

IPC 1-7

C11D 17/00; **C11D 3/37**; **C11D 3/08**

IPC 8 full level

C11D 3/08 (2006.01); **C11D 3/10** (2006.01); **C11D 3/37** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

C11D 3/08 (2013.01); **C11D 3/10** (2013.01); **C11D 3/3761** (2013.01); **C11D 17/0091** (2013.01)

Cited by

CN110612188A

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

WO 9115568 A1 19911017; AT E118540 T1 19950315; DE 4010524 A1 19911010; DE 59104634 D1 19950323; EP 0523095 A1 19930120; EP 0523095 B1 19950215; ES 2068575 T3 19950416

DOCDB simple family (application)

EP 9100568 W 19910325; AT 91906795 T 19910325; DE 4010524 A 19900402; DE 59104634 T 19910325; EP 91906795 A 19910325; ES 91906795 T 19910325