

Title (en)

ADDITIVE FOR USE IN GLASS-BOTTLE WASHING AND ITS USE IN DECREASING GLASS CORROSION

Title (de)

ADDITIV FÜR DIE GLASFLASCHENREINIGUNG UND SEINE VERWENDUNG ZUR VERRINGERUNG DER GLASKORROSION

Title (fr)

ADJUVANT POUR LE LAVAGE DES BOUTEILLES EN VERRE ET SON UTILISATION POUR REDUIRE LA CORROSION DU VERRE

Publication

EP 0728180 A1 19960828 (DE)

Application

EP 94931560 A 19941103

Priority

- DE 4338626 A 19931112
- EP 9403618 W 19941103

Abstract (en)

[origin: WO9513350A1] The invention concerns an additive for alkaline aqueous washing solutions for use in bottle-washing plants, the additive containing a combination of hydroxyoligocarboxylic acids and phosphonic acids and resulting in a reduction of glass corrosion during washing. The invention also concerns the use of the additive in washing glass-bottles.

IPC 1-7

C11D 3/20; **C11D 3/33**; **C11D 3/36**

IPC 8 full level

C11D 3/20 (2006.01); **C11D 3/33** (2006.01); **C11D 3/36** (2006.01); **C11D 7/08** (2006.01); **C11D 7/26** (2006.01); **C11D 7/32** (2006.01); **C11D 7/36** (2006.01)

CPC (source: EP)

C11D 7/08 (2013.01); **C11D 7/265** (2013.01); **C11D 7/3245** (2013.01); **C11D 7/36** (2013.01)

Citation (search report)

See references of WO 9513350A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9513350 A1 19950518; AT E170213 T1 19980915; CA 2176336 A1 19950518; DE 4338626 A1 19950518; DE 59406789 D1 19981001; DK 0728180 T3 19990628; EP 0728180 A1 19960828; EP 0728180 B1 19980826; PL 314308 A1 19960902

DOCDB simple family (application)

EP 9403618 W 19941103; AT 94931560 T 19941103; CA 2176336 A 19941103; DE 4338626 A 19931112; DE 59406789 T 19941103; DK 94931560 T 19941103; EP 94931560 A 19941103; PL 31430894 A 19941103