

Title (en)

IMPROVING THE STABILITY OF DETERGENTS CONTAINING HYPOCHLORITE

Title (de)

ERHÖHUNG DER STABILITÄT HYPOCHLORITHALTIGER WASCHMITTEL

Title (fr)

AMÉLIORATION DE LA STABILITÉ DE DÉTERGENTS CONTENANT DE L'HYPOCHLORITE

Publication

EP 1966364 B1 20140319 (DE)

Application

EP 06829421 A 20061208

Priority

- EP 2006011814 W 20061208
- DE 102005063177 A 20051230

Abstract (en)

[origin: DE102005063177A1] Use of diethylene-penta-methylene phosphonic acid and/or its alkali salt (A) for the stabilization of optical brightener in aqueous liquid detergent containing alkali hypochlorite. An independent claim is included for an aqueous liquid bleaching agent containing alkali hypochlorite, optical brightener and (A).

IPC 8 full level

C11D 3/395 (2006.01); **C11D 3/36** (2006.01); **C11D 3/42** (2006.01)

CPC (source: EP US)

C11D 3/364 (2013.01 - EP US); **C11D 3/3956** (2013.01 - EP US); **C11D 3/42** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102005063177 A1 20070705; EP 1966364 A1 20080910; EP 1966364 B1 20140319; ES 2455145 T3 20140414; PL 1966364 T3 20140829; US 2008305980 A1 20081211; US 7786066 B2 20100831; WO 2007079856 A1 20070719

DOCDB simple family (application)

DE 102005063177 A 20051230; EP 06829421 A 20061208; EP 2006011814 W 20061208; ES 06829421 T 20061208; PL 06829421 T 20061208; US 14740508 A 20080626