

Title (en)

STABILIZED CONCENTRATED CLEANING SOLUTIONS AND METHODS OF PREPARING THE SAME

Title (de)

STABILISIERTE KONZENTRIERTE REINIGUNGSLÖSUNGEN UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

SOLUTIONS DE NETTOYAGE CONCENTRÉES STABILISÉES ET LEURS PROCÉDÉS DE PRÉPARATION

Publication

EP 2164944 A1 20100324 (EN)

Application

EP 07796891 A 20070717

Priority

US 2007016147 W 20070717

Abstract (en)

[origin: WO2009011676A1] The invention is directed to stabilized concentrated cleaning solutions comprising a source of hypochlorite ions and to a method for providing the stabilized concentrated cleaning solutions. The stabilized concentrated cleaning solutions according to the invention comprise a hydroxide ion source, hypochlorite ion source, and a chelating agent, and are provided simply by mixing the various components together. The stabilized concentrated cleaning solutions exhibit stability against, e.g., dilution with a diluent comprising amounts of copper, iron, nickel cobalt, etc., as well as storage for periods of from about 10 weeks to up to about 1 year without undergoing visible deterioration and/or a substantial deterioration in efficacy.

IPC 8 full level

C11D 7/06 (2006.01); **C11D 7/28** (2006.01); **C11D 7/32** (2006.01)

CPC (source: EP)

C11D 3/3956 (2013.01); **C11D 7/06** (2013.01); **C11D 7/28** (2013.01); **C11D 7/3245** (2013.01)

Citation (search report)

See references of WO 2009011676A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2009011676 A1 20090122; AU 2007356500 A1 20090122; AU 2007356500 B2 20130117; BR PI0721689 A2 20130326; CA 2686590 A1 20090122; CA 2686590 C 20140401; CN 101679921 A 20100324; CN 101679921 B 20130501; EP 2164944 A1 20100324; EP 2164944 B1 20130306; JP 2010533765 A 20101028; JP 5443351 B2 20140319; MX 2009013256 A 20100125

DOCDB simple family (application)

US 2007016147 W 20070717; AU 2007356500 A 20070717; BR PI0721689 A 20070717; CA 2686590 A 20070717; CN 200780053290 A 20070717; EP 07796891 A 20070717; JP 2010516957 A 20070717; MX 2009013256 A 20070717