

Title (en)

USE OF OPTIONALLY OXIDIZED THIOETHERS OF ALCOHOL ALKOXYLATES IN DETERGENTS AND CLEANING AGENTS

Title (de)

VERWENDUNG VON GEGEBENENFALLS OXIDIERTEN THIOETHERN VON ALKOHOLALKOXYLATEN IN WASCH- UND REINIGUNGSMITTELN

Title (fr)

UTILISATION DE THIOÉTHERS ÉVENTUELLEMENT OXYDÉS D'ALCOOXYLATES D'ALCOOLS DANS DES DÉTERGENTS ET PRODUITS DE NETTOYAGE

Publication

EP 2663625 B1 20180627 (DE)

Application

EP 12700080 A 20120112

Priority

- EP 11150875 A 20110113
- EP 2012050421 W 20120112
- EP 12700080 A 20120112

Abstract (en)

[origin: WO2012095481A1] The invention relates to the use of (oxidized) thioethers of alcohol alkoxylates in detergents and cleaning agents, especially in dishwashing detergents, and to detergents and cleaning agents, especially dishwashing detergents, containing (oxidized) thioethers of alcohol alkoxylates. Said (oxidized) thioethers are especially suitable for use as surfactants having rinse aid function (rinse aid surfactants). The term "oxidized" refers to the sulfur atom in the thioether, which may be present in oxidized form as a sulfoxide (SO) or sulfonyl (SO₂).

IPC 8 full level

C11D 1/755 (2006.01); **C11D 1/00** (2006.01); **C11D 1/74** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP KR)

C11D 1/00 (2013.01 - KR); **C11D 1/008** (2013.01 - EP); **C11D 1/74** (2013.01 - EP KR); **C11D 1/755** (2013.01 - EP KR);
C11D 17/00 (2013.01 - KR); **C11D 17/003** (2013.01 - EP); **C11D 17/0091** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012095481 A1 20120719; BR 112013017438 A2 20160927; CA 2822855 A1 20120719; CN 103314094 A 20130918;
CN 103314094 B 20160525; EP 2663625 A1 20131120; EP 2663625 B1 20180627; ES 2686304 T3 20181017; JP 2014502665 A 20140203;
JP 5931920 B2 20160608; KR 101891479 B1 20180824; KR 20140040085 A 20140402; MX 2013007891 A 20130827;
RU 2013137510 A 20150220; RU 2597014 C2 20160910

DOCDB simple family (application)

EP 2012050421 W 20120112; BR 112013017438 A 20120112; CA 2822855 A 20120112; CN 201280005218 A 20120112;
EP 12700080 A 20120112; ES 12700080 T 20120112; JP 2013548840 A 20120112; KR 20137018367 A 20120112; MX 2013007891 A 20120112;
RU 2013137510 A 20120112