

Title (en)
DISHWASHER DETERGENT CONTAINING METAL COMPLEXES

Title (de)
GESCHIRRSPÜLMITTEL ENTHALTEND METALLKOMPLEXE

Title (fr)
DÉTERGENT POUR LAVE-VAISSELLE CONTENANT DES COMPLEXES MÉTALLIQUES

Publication
EP 3209762 B1 20181212 (DE)

Application
EP 15784043 A 20151021

Priority
• DE 102014221581 A 20141023
• EP 2015074415 W 20151021

Abstract (en)
[origin: WO2016062784A1] The invention relates to an automatic dishwasher detergent containing metal complexes of formula $Mn+L(Am-)n/m$, where M is a metal cation, A is any anion, n and m are integers from 1 to 6, and L is a neutral ligand of formula (II), where each X is as defined herein. Said automatic dishwasher detergent has an improved cleaning performance for eliminating burnt dirt. Also disclosed are the use of said automatic dishwasher detergent and a method for automatic dishwashing using said dishwasher detergent.

IPC 8 full level
C11D 3/39 (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP KR US)
C11D 3/0073 (2013.01 - US); **C11D 3/168** (2013.01 - EP KR US); **C11D 3/2068** (2013.01 - US); **C11D 3/28** (2013.01 - US);
C11D 3/3907 (2013.01 - US); **C11D 3/3935** (2013.01 - US); **C11D 17/0039** (2013.01 - US); **C11D 17/0091** (2013.01 - EP KR US);
C11D 17/043 (2013.01 - EP KR US); **C11D 2111/14** (2024.01 - EP KR US)

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)
DE 102014221581 A1 20160428; EP 3209762 A1 20170830; EP 3209762 B1 20181212; KR 102402870 B1 20220527;
KR 20170072277 A 20170626; US 10358621 B2 20190723; US 2017321164 A1 20171109; WO 2016062784 A1 20160428

DOCDB simple family (application)
DE 102014221581 A 20141023; EP 15784043 A 20151021; EP 2015074415 W 20151021; KR 20177013409 A 20151021;
US 201515520124 A 20151021