

Title (en)
MULTIPURPOSE ACIDIC COMPOSITIONS AND METHODS OF USE

Title (de)
SAURE MEHRZWECKZUSAMMENSETZUNGEN UND VERFAHREN ZUR VERWENDUNG

Title (fr)
COMPOSITIONS ACIDES POLYVALENTES ET PROCÉDÉS D'UTILISATION

Publication
EP 4229160 A1 20230823 (EN)

Application
EP 21827722 A 20211122

Priority
• US 202063198956 P 20201125
• US 202117249793 A 20210312
• US 2021060268 W 20211122

Abstract (en)
[origin: WO2022115355A1] Multipurpose acidic compositions for cleaning and/or sanitizing are provided. The acidic compositions are liquids that remove polymerized soils, hard water deposit (e.g., calcium carbonate), soap scum, rust and other stains (e.g., coffee and tea), including assisting in general cleaning of difficult soils, such as fats, oils, cosmetics, and other difficult soils. The acidic compositions can include at least one organic acid and a solvent or solvent system, and if desired, can be PPE free compositions. Methods for using the acidic compositions as pre-treatments, soaks and/or application in machine and manual warewash are also provided. Methods for using the acidic compositions for removing polymerized oils, carbonized soils, fats, oils, stains (e.g., coffee and tea), hard water scale/deposits, and cosmetics are also provided.

IPC 8 full level
C11D 3/00 (2006.01); **C11D 1/14** (2006.01); **C11D 3/20** (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP)
C11D 3/0047 (2013.01); **C11D 3/2075** (2013.01); **C11D 1/143** (2013.01); **C11D 3/2034** (2013.01); **C11D 2111/24** (2024.01)

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022115355 A1 20220602; AU 2021385532 A1 20230608; AU 2021385532 A9 20240613; CA 3196534 A1 20220602;
CN 116323885 A 20230623; EP 4229160 A1 20230823; JP 2023547398 A 20231110

DOCDB simple family (application)
US 2021060268 W 20211122; AU 2021385532 A 20211122; CA 3196534 A 20211122; CN 202180070601 A 20211122;
EP 21827722 A 20211122; JP 2023524723 A 20211122