

Title (en)

METHOD FOR USING ALKANOLAMINE IN A GRINDER

Title (de)

VERFAHREN ZUR VERWENDUNG VON ALKANOLAMIN IN EINER SCHLEIFMASCHINE

Title (fr)

PROCÉDÉ D'UTILISATION D'ALCANOLAMINE DANS UN BROEUR

Publication

EP 3863984 A1 20210818 (FR)

Application

EP 19782633 A 20191010

Priority

- FR 1859381 A 20181010
- EP 2019077456 W 20191010

Abstract (en)

[origin: WO2020074633A1] The present invention relates to a method for using a secondary or tertiary alkanolamine for grinding cement, comprising: - forming an inorganic acid salt of the alkanolamine; - adding the salified alkanolamine to a grinder.

IPC 8 full level

C04B 28/02 (2006.01); **C04B 7/52** (2006.01)

CPC (source: EP KR US)

C04B 7/52 (2013.01 - EP KR US); **C04B 24/122** (2013.01 - KR US); **C04B 28/02** (2013.01 - EP KR US); **C04B 2103/50** (2013.01 - KR US); **C04B 2103/52** (2013.01 - KR)

C-Set (source: EP)

C04B 28/02 + **C04B 24/121**

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

DOCDB simple family (publication)

WO 2020074633 A1 20200416; AU 2019356954 A1 20210513; AU 2023202421 A1 20230511; BR 112021006735 A2 20210713; CA 3115389 A1 20200416; CA 3115389 C 20231107; CN 112823146 A 20210518; CN 112823146 B 20230627; EA 202190756 A1 20210813; EP 3863984 A1 20210818; FR 3087196 A1 20200417; FR 3087196 B1 20220805; JP 2022512677 A 20220207; JP 7353362 B2 20230929; KR 102604067 B1 20231120; KR 20210070998 A 20210615; MA 52918 A1 20211231; MA 52918 B1 20221031; MX 2021003988 A 20210816; PH 12021550768 A1 20211213; TN 2021000070 A1 20230105; US 2021387909 A1 20211216; ZA 202102280 B 20220727

DOCDB simple family (application)

EP 2019077456 W 20191010; AU 2019356954 A 20191010; AU 2023202421 A 20230420; BR 112021006735 A 20191010; CA 3115389 A 20191010; CN 201980066578 A 20191010; EA 202190756 A 20191010; EP 19782633 A 20191010; FR 1859381 A 20181010; JP 2021520101 A 20191010; KR 20217010658 A 20191010; MA 52918 A 20191010; MX 2021003988 A 20191010; PH 12021550768 A 20210405; TN 2021000070 A 20191010; US 201917284261 A 20191010; ZA 202102280 A 20210406