

Title (en)
WEAKLY COLOURED SULFONIC ACID

Title (de)
SCHWACH GEFÄRBTE SULFONSÄURE

Title (fr)
ACIDE SULFONIQUE FAIBLEMENT COLORE

Publication
EP 3676245 A1 20200708 (FR)

Application
EP 18773237 A 20180830

Priority
• FR 1758098 A 20170901
• FR 2018052125 W 20180830

Abstract (en)
[origin: WO2019043338A1] The present invention relates to a weakly corrosive and weakly coloured sulfonic acid, with APHA colour index less than 20, comprising chlorides and nitrites in a chloride/sulfonic acid molar ratio of between 1 ppm and 200 ppm, and a nitrite/sulfonic acid molar ratio of between 200 ppm and 6000 ppm, with the limits included.

IPC 8 full level
C07C 303/42 (2006.01); **C07C 309/04** (2006.01); **C23F 11/16** (2006.01)

CPC (source: EP KR US)
C07C 303/42 (2013.01 - EP KR US); **C07C 309/04** (2013.01 - KR US); **C07C 309/06** (2013.01 - US); **C07C 309/29** (2013.01 - US); **C07C 309/30** (2013.01 - US); **C07C 309/35** (2013.01 - US); **C23F 11/04** (2013.01 - EP KR); **C23F 11/181** (2013.01 - EP KR); **C23F 11/04** (2013.01 - US); **C23F 11/181** (2013.01 - US)

Citation (search report)
See references of WO 2019043338A1

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 2019043338 A1 20190307; BR 112020003346 A2 20200818; BR 112020003346 B1 20230131; CN 110997630 A 20200410; CN 110997630 B 20230714; EP 3676245 A1 20200708; FR 3070686 A1 20190308; FR 3070686 B1 20190830; KR 102290808 B1 20210817; KR 20200032194 A 20200325; PH 12020500294 A1 20210111; TW 201920089 A 20190601; TW I675818 B 20191101; US 11040940 B2 20210622; US 2020181072 A1 20200611

DOCDB simple family (application)
FR 2018052125 W 20180830; BR 112020003346 A 20180830; CN 201880056285 A 20180830; EP 18773237 A 20180830; FR 1758098 A 20170901; KR 20207005798 A 20180830; PH 12020500294 A 20200210; TW 107130586 A 20180831; US 201816643076 A 20180830