

Title (en)  
PURIFICATION OF AQUEOUS SOLUTIONS CONTAINING FORMALDEHYDE AND USE OF THE PURIFIED SOLUTION IN AN ACRYLIC ACID PRODUCTION PROCESS

Title (de)  
REINIGUNG VON FORMALDEHYDHALTIGEN WÄSSRIGEN LÖSUNGEN UND VERWENDUNG DER GEREINIGTEN LÖSUNG IN EINEM ACRYLSÄUREHERSTELLUNGSVERFAHREN

Title (fr)  
PURIFICATION DE SOLUTIONS AQUEUSES CONTENANT DU FORMALDEHYDE, ET UTILISATION DE LA SOLUTION PURIFIEE DANS UN PROCEDE DE PRODUCTION D'ACIDE ACRYLIQUE

Publication  
**EP 3887349 A1 20211006 (FR)**

Application  
**EP 19835700 A 20191129**

Priority  
• FR 1872059 A 20181129  
• FR 2019052840 W 20191129

Abstract (en)  
[origin: WO2020109739A1] The present invention relates to a process for treating aqueous effluents containing formaldehyde by distillation in the presence of acetic acid, in particular to a process for treating aqueous solutions resulting from the synthesis of acrylic acid. The invention also relates to the use of the purified aqueous solution in a process for producing acrylic acid by catalytic oxidation of propylene and/or propane in steam dilution.

IPC 8 full level  
**C07C 45/83** (2006.01); **B01D 3/14** (2006.01); **B01D 3/40** (2006.01); **C02F 1/04** (2006.01); **C07C 45/35** (2006.01); **C07C 47/04** (2006.01); **C07C 47/22** (2006.01); **C07C 51/235** (2006.01); **C07C 51/46** (2006.01); **C07C 51/48** (2006.01); **C07C 57/04** (2006.01)

CPC (source: EP KR US)  
**B01D 3/141** (2013.01 - EP); **B01D 3/40** (2013.01 - EP); **C02F 1/04** (2013.01 - US); **C02F 1/048** (2013.01 - EP); **C07C 45/35** (2013.01 - EP US); **C07C 45/83** (2013.01 - EP); **C07C 47/04** (2013.01 - KR); **C07C 51/215** (2013.01 - US); **C07C 51/235** (2013.01 - EP KR); **C07C 51/252** (2013.01 - US); **C07C 51/46** (2013.01 - EP KR US); **C07C 51/48** (2013.01 - EP KR US); **C07C 53/08** (2013.01 - KR); **C08F 2/10** (2013.01 - US); **C08F 20/06** (2013.01 - US); **C02F 2101/34** (2013.01 - US); **Y02P 20/10** (2015.11 - EP)

C-Set (source: EP)  
1. **C07C 45/83** + **C07C 47/04**  
2. **C07C 45/35** + **C07C 47/22**  
3. **C07C 51/235** + **C07C 57/04**  
4. **C07C 51/46** + **C07C 57/04**  
5. **C07C 51/48** + **C07C 57/04**

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 2020109739 A1 20200604**; BR 112021008859 A2 20210831; CN 113166019 A 20210723; CN 113166019 B 20240409; EP 3887349 A1 20211006; FR 3089222 A1 20200605; JP 2022508281 A 20220119; JP 7426390 B2 20240201; KR 20210096174 A 20210804; US 2021395107 A1 20211223

DOCDB simple family (application)  
**FR 2019052840 W 20191129**; BR 112021008859 A 20191129; CN 201980078254 A 20191129; EP 19835700 A 20191129; FR 1872059 A 20181129; JP 2021530863 A 20191129; KR 20217019678 A 20191129; US 201917297565 A 20191129