

Title (en)
PROCESS FOR PURIFYING AN ORGANIC ACID

Title (de)
VERFAHREN ZUR AUFREINIGUNG EINER ORGANISCHEN SÄURE

Title (fr)
PROCEDE DE PURIFICATION D'ACIDE ORGANIQUE

Publication
EP 1470099 A4 20060412 (EN)

Application
EP 02797276 A 20021211

Priority

- US 0239620 W 20021211
- US 3766402 A 20020103
- US 29597002 A 20021115

Abstract (en)
[origin: WO03059863A1] A process is disclosed for purifying an aqueous feed stream (10) containing a product organic acid and a strong contaminant such as another organic acid. The molar concentration of the organic acid in the feed stream (10) is at least 20 times greater than that of the contaminant. The feed stream (10) is contacted with an immiscible basic extractant (18) that has a greater affinity for the contaminant and which complexes with the contaminant and some of the organic acid. The complexed extractant is separated from the aqueous stream (10), so as to produce a first effluent stream (20) comprising product organic acid. The complexed extractant is contacted with a displacing acid, for which the extractant has a greater affinity than contaminant or extractant. As a result, a second effluent stream (28) comprising organic acid and a third effluent stream (30) are produced.

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C07C 59/08

IPC 8 full level
C07C 51/48 (2006.01)

CPC (source: EP)
C07C 51/48 (2013.01)

Citation (search report)

- [A] US 4275234 A 19810623 - BANIEL AVRAHAM M, et al
- [A] VON FRIELING, P. ET AL: "Recovery of lactic acid from aqueous model solutions and fermentation broths", PROCESS BIOCHEMISTRY (OXFORD) , 34(6,7), 685-696 CODEN: PBCH5; ISSN: 1359-5113, 1999, XP002366347
- See references of WO 03059863A1

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US 0239620 W 20021211; AU 2002362143 A 20021211; BR 0215459 A 20021211; CA 2470978 A 20021211; CN 02826698 A 20021211; EP 02797276 A 20021211