

Title (en)

A process for removing organic carbonyl-containing contaminants from a hydrocarbon product stream.

Title (de)

Verfahren zur Abscheidung von organischen carboxylierten Unreinheiten aus einem Strom von Kohlenwasserstoff-produkten.

Title (fr)

Procédé pour l'élimination d'impuretés organiques carboxylées d'un courant de produit hydrocarboné.

Publication

EP 0000279 A1 19790110 (EN)

Application

EP 78300092 A 19780627

Priority

US 81110677 A 19770629

Abstract (en)

Carbonyl-containing organic impurities are removed from organic hydrocarbons produced in conventional facilities. The process comprises contacting the hydrocarbon product with an aqueous solution containing a water soluble reducing agent in slightly greater amount than is theoretically required for complete reaction with the carbonyl compounds, in an in-line mixing means, and then passing the mixture to a phase separator to separate the layers. The resulting "scrubbed" hydrocarbon product is substantially purified (e.g., to as low as less than 2 ppm carbonyl compounds). An optional second mixer and scrubbing tower are provided as a back-up system in case of surge conditions or maintenance of the first system.

IPC 1-7

C07C 7/01; **C07C 11/16**

IPC 8 full level

C07C 1/00 (2006.01); **C07C 7/152** (2006.01); **C07C 7/148** (2006.01); **C07C 11/16** (2006.01); **C07C 67/00** (2006.01)

CPC (source: EP US)

C07C 7/152 (2013.01 - EP US); **Y10S 585/956** (2013.01 - EP US)

C-Set (source: EP US)

C07C 7/152 + **C07C 11/167**

Citation (search report)

- [A] BE 667268 A 19660124
- [A] US 3801669 A 19740402 - CHRISTMANN H
- [A] FR 2170193 A1 19730914 - PETRO TEX CHEM CORP [US]
- [AD] US 3682779 A 19720808 - RITTER RONALD E, et al
- [AD] US 3674887 A 19720704 - CLAY HARRIS A

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EP0534094A3; GB2215344A; GB2215344B

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EP 0000279 A1 19790110; **EP 0000279 B1 19811014**; AU 3760678 A 19800103; AU 517812 B2 19810827; BR 7804112 A 19790313; CA 1099749 A 19810421; DE 2861153 D1 19811224; IT 1097351 B 19850831; IT 7825074 A0 19780628; JP S5416411 A 19790207; US 4125568 A 19781114

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EP 78300092 A 19780627; AU 3760678 A 19780629; BR 7804112 A 19780628; CA 305372 A 19780613; DE 2861153 T 19780627; IT 2507478 A 19780628; JP 7811778 A 19780629; US 81110677 A 19770629