

Title (en)  
RECOVERY OF ALIPHATIC HYDROCARBONS

Title (de)  
RÜCKGEWINNUNG VON ALIPHATISCHEN KOHLENWASSERSTOFFEN

Title (fr)  
RÉCUPÉRATION D'HYDROCARBURES ALIPHATIQUES

Publication  
**EP 4229151 A1 20230823 (EN)**

Application  
**EP 21786240 A 20211012**

Priority  
• EP 20202226 A 20201016  
• EP 2021078153 W 20211012

Abstract (en)  
[origin: WO2022079012A1] The invention relates to a process for the recovery of aliphatic hydrocarbons from a liquid stream comprising aliphatic hydrocarbons, heteroatom containing organic compounds and optionally aromatic hydrocarbons, involving a) liquid-liquid extraction of said liquid stream with an extraction solvent thereby recovering part of the aliphatic hydrocarbons; b1) mixing the extract stream, comprising extraction solvent, aliphatic hydrocarbons, heteroatom containing organic compounds and optionally aromatic hydrocarbons, with a demixing solvent to recover additional aliphatic hydrocarbons; b2) mixing the remaining stream with additional demixing solvent to remove heteroatom containing organic compounds and optional aromatic hydrocarbons; and c) separation of the remaining stream into a demixing solvent stream and an extraction solvent stream. Further, the invention relates to a process for the recovery of aliphatic hydrocarbons from plastics comprising the above-mentioned process; and to a process for steam cracking a hydrocarbon feed comprising aliphatic hydrocarbons as recovered in one of the above-mentioned processes.

IPC 8 full level  
**C10G 21/12** (2006.01); **C10G 1/00** (2006.01); **C10G 1/02** (2006.01); **C10G 1/10** (2006.01); **C10G 21/28** (2006.01); **C10G 53/06** (2006.01); **C10G 55/04** (2006.01)

CPC (source: EP KR US)  
**C10G 1/002** (2013.01 - EP KR); **C10G 1/02** (2013.01 - EP KR); **C10G 1/10** (2013.01 - EP KR); **C10G 21/12** (2013.01 - EP KR); **C10G 21/28** (2013.01 - EP KR); **C10G 53/06** (2013.01 - EP KR); **C10G 55/04** (2013.01 - EP KR); **C10G 67/049** (2013.01 - US); **C10G 2300/1037** (2013.01 - US); **C10G 2300/202** (2013.01 - US); **C10G 2300/4081** (2013.01 - US); **C10G 2300/44** (2013.01 - US)

Citation (search report)  
See references of WO 2022079012A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022079012 A1 20220421**; CA 3196622 A1 20220421; CN 116348575 A 20230627; EP 4229151 A1 20230823; JP 2023546118 A 20231101; KR 20230086707 A 20230615; US 2023374402 A1 20231123

DOCDB simple family (application)  
**EP 2021078153 W 20211012**; CA 3196622 A 20211012; CN 202180069720 A 20211012; EP 21786240 A 20211012; JP 2023523038 A 20211012; KR 20237015129 A 20211012; US 202118247106 A 20211012