

Title (en)  
HYDROCARBON FLUIDS

Title (de)  
KOHLENWASSERSTOFFFLÜSSIGKEITEN

Title (fr)  
FLUIDES HYDROCARBONÉS

Publication  
**EP 4232526 A1 20230830 (EN)**

Application  
**EP 21794393 A 20211021**

Priority  
• US 202063104876 P 20201023  
• EP 20210970 A 20201201  
• EP 2021079172 W 20211021

Abstract (en)  
[origin: WO2022084433A1] Provided herein is a method for producing a hydrocarbon fluid from waste plastic feedstock, comprising (a) providing a first hydrocarbon feed stream, wherein at least 50 wt% of said first hydrocarbon feed stream is obtained from pyrolysis of plastic waste; (b) removing contaminants from said first hydrocarbon feed stream using a washing step with a polar solvent and/or contacting the stream with one or more adsorbents; thereby obtaining a first hydrocarbon fluid; and (c) hydrogenation of olefins and diolefins in said first hydrocarbon fluid; thereby obtaining a hydroprocessed hydrocarbon fluid containing less than 0.1 wt% olefins; a total amount of metals selected from mercury, lead, and iron below 5 wppm; less than 5 wppm of chlorine and fluorine; and less than 5 wppm of sulfur.

IPC 8 full level  
**C10G 1/10** (2006.01); **C10B 53/07** (2006.01); **C10G 1/00** (2006.01); **C10G 21/00** (2006.01); **C10G 25/00** (2006.01); **C10G 45/36** (2006.01); **C10G 45/44** (2006.01); **C10G 45/58** (2006.01); **C10G 53/04** (2006.01); **C10G 67/04** (2006.01); **C10G 67/06** (2006.01)

CPC (source: EP US)  
**C10G 1/002** (2013.01 - EP); **C10G 1/10** (2013.01 - EP); **C10G 21/00** (2013.01 - EP); **C10G 25/00** (2013.01 - EP); **C10G 45/36** (2013.01 - EP); **C10G 45/44** (2013.01 - EP); **C10G 45/58** (2013.01 - EP); **C10G 53/04** (2013.01 - EP); **C10G 67/04** (2013.01 - EP); **C10G 67/06** (2013.01 - EP US); **C10G 2300/1003** (2013.01 - US); **C10G 2300/202** (2013.01 - US); **C10G 2300/205** (2013.01 - US)

Citation (search report)  
See references of WO 2022084433A1

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 2022084433 A1 20220428**; EP 4232526 A1 20230830; US 2024010939 A1 20240111

DOCDB simple family (application)  
**EP 2021079172 W 20211021**; EP 21794393 A 20211021; US 202118245928 A 20211021