

Title (en)

BIOMASS BASED ACTIVATED CARBON AS CO<sub>2</sub> AND CO ABSORBENT METHOD AND APPARATUS FOR SEPARATING CO AND CO<sub>2</sub> FROM A GAS SUCH AS BLAST FURNACE GAS

Title (de)

AUF BIOMASSE BASIERENDE AKTIVKOHLE ALS CO<sub>2</sub>- UND CO-ABSORBENS, VERFAHREN UND VORRICHTUNG ZUR ABTRENNUNG VON CO UND CO<sub>2</sub> AUS EINEM GAS WIE HOCHOFENGAS

Title (fr)

CHARBON ACTIF À BASE DE BIOMASSE EN TANT QUE PROCÉDÉ ABSORBANT DE CO<sub>2</sub> ET DE CO ET APPAREIL DE SÉPARATION DE CO ET DE CO<sub>2</sub> D'UN GAZ TEL QU'UN GAZ DE HAUT FOURNEAU

Publication

**EP 3849699 A1 20210721 (EN)**

Application

**EP 19766367 A 20190910**

Priority

- IB 2018056878 W 20180910
- IB 2019057609 W 20190910

Abstract (en)

[origin: WO2020053752A1] The invention mainly relates to a biomass based activated carbon as adsorbent for the separation of carbon dioxide and carbon monoxide from a gas containing at least carbon dioxide, carbon monoxide and inert components such as nitrogen and hydrogen, said biomass based activated carbon having a porous structure prepared from olive stones and impregnated with copper chloride. The invention also relates to a method of separation of carbon dioxide and carbon monoxide from a gas containing at least carbon dioxide, carbon monoxide, and inert components such as nitrogen and hydrogen, wherein said gas is subjected to flow through a CO<sub>2</sub> and CO adsorbent layer comprising said biomass based activated carbon.

IPC 8 full level

**B01D 53/02** (2006.01); **B01D 53/047** (2006.01); **B01J 20/02** (2006.01); **B01J 20/20** (2006.01); **B01J 20/32** (2006.01)

CPC (source: EP)

**B01D 53/02** (2013.01); **B01D 53/0476** (2013.01); **B01J 20/0237** (2013.01); **B01J 20/0288** (2013.01); **B01J 20/20** (2013.01); **B01J 20/3204** (2013.01); **B01J 20/3236** (2013.01); **B01D 2253/102** (2013.01); **B01D 2253/112** (2013.01); **B01D 2253/25** (2013.01); **B01D 2256/10** (2013.01); **B01D 2256/16** (2013.01); **B01D 2257/502** (2013.01); **B01D 2257/504** (2013.01); **Y02C 20/40** (2020.08)

Citation (search report)

See references of WO 2020053752A1

Cited by

CN114774599A

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 2020053752 A1 20200319**; EP 3849699 A1 20210721; WO 2020053619 A1 20200319

DOCDB simple family (application)

**IB 2019057609 W 20190910**; EP 19766367 A 20190910; IB 2018056878 W 20180910