

## Title (en)

Hydrocracking process with recycling which includes adsorption of polyaromatic compounds from recycled stream using a silica-alumina based adsorbant with limited macropores concentration

## Title (de)

Hydrocrackerverfahren mit Recycling zur Adsorption von polyaromatischen Verbindungen aus Rückführströme mittels Silica-Alumina Adsorbens mit begrenztem Makroporengehalt

## Title (fr)

Procédé d'hydrocraquage avec recyclage comprenant l'adsorption de composés polyaromatiques de la fraction recyclée sur un adsorbant à base de silice-alumine à teneur limitée en macropores

## Publication

**EP 1700899 A1 20060913 (FR)**

## Application

**EP 06290332 A 20060228**

## Priority

FR 0502369 A 20050309

## Abstract (en)

Improved process of hydrocracking with recycling, having an elimination of polyaromatic compounds of at least a part of the fraction, which is recycled by adsorption on an adsorbent, containing alumina-silica (comprising alumina and silica) by mass content in silica (SiO<sub>2</sub>) higher than 5 wt.% and =95 wt.%. Improved process of hydrocracking with recycling, having an elimination of polyaromatic compounds of at least a part of the fraction, which is recycled by adsorption on an adsorbent, containing alumina-silica (comprising alumina and silica) by mass content in silica (SiO<sub>2</sub>) higher than 5 wt.% and =95 wt.% with an average porous diameter, measured by mercury porosimetry, of 20-140 Å, a total porous volume, measured by mercury and nitrogen porosimetry, at 0.1-0.5 ml/g, a specific Brunauer, Emmett and Teller surface at 200-600 m<sup>2</sup>/g, a porous volume, measured by mercury porosimetry, comprised in the pores of diameter higher than 140 Å, 160 Å, 200 Å and 500 Å, lower than 0.1 ml/g, a X-rays diffraction diagram, which contains at least the principal lines characteristic of at least one of the transition aluminas comprised in the group composed by aluminas of rho, khi, kappa, eta, gamma, theta and delta, and a compressed filling density higher than 0.75 g/cm<sup>3</sup>.

## IPC 8 full level

**C10G 67/06** (2006.01); **C10G 25/00** (2006.01)

## CPC (source: EP US)

**C10G 25/003** (2013.01 - EP US); **C10G 67/06** (2013.01 - EP US); **C10G 2300/201** (2013.01 - EP US); **C10G 2300/4081** (2013.01 - EP US); **C10G 2300/4093** (2013.01 - EP US)

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## DOCDB simple family (application)

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