

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 contrôlée en macropores

Publication  
**EP 1700900 B1 20080709 (FR)**

Application  
**EP 06290333 A 20060228**

Priority  
FR 0502368 A 20050309

Abstract (en)  
[origin: EP1700900A1] 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: a sodium content of lower than 0.03 wt.%; a total porous volume, measured by mercury porosimetry, of 0.45-1.2 ml/g; a porosity such as, the volume of the mesovoids with a diameter of 40-150Å and an average porous diameter of 80-140Å at 30-80% of the total porous volume and the volume of the macropores with a diameter higher than 500Å at 20-80% of total porous volume, both measured by mercury porosimetry; a specific Brunauer, Emmett and Teller surface at 200-550 m<sup>2</sup>/g; and 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.

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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