

Title (en)  
METHOD FOR TREATING CARBONACEOUS MATERIALS

Title (de)  
VERFAHREN ZUR BEHANDLUNG VON KOHLENSTOFFHALTIGEN MATERIALIEN

Title (fr)  
TRAITEMENT DE MATIERES CARBONEES

Publication  
**EP 1483360 A4 20080820 (EN)**

Application  
**EP 03702221 A 20030305**

Priority  
• AU 0300258 W 20030305  
• AU PS091102 A 20020305

Abstract (en)  
[origin: WO03074639A1] Process for reducing the amount of sulfur-containing impurities in carbonaceous materials are described. One process comprises contacting the materials with an aqueous solution of hydrofluorosilicic acid in the absence of hydrogen fluoride under conditions wherein at least some of the sulfur-containing impurities react with the hydrofluorosilicic acid to form reaction products and separating the reaction products from the carbonaceous materials. Another process comprises contacting the materials with an aqueous solution of hydrofluorosilicic acid in the absence of hydrogen fluoride under conditions wherein at least some of the sulfur-containing impurities react with the hydrofluorosilicic acid to form reaction products, separating the reaction products and the hydrofluorosilicic acid from the carbonaceous materials and subsequently treating the carbonaceous materials with a fluorine acid solution which comprises an aqueous solution of hydrofluorosilicic acid and hydrogen fluoride. A further process comprises treating the carbonaceous materials with a fluorine acid solution which comprises an aqueous solution of hydrofluorosilicic acid and hydrogen fluoride, separating the carbonaceous materials from the aqueous solution of hydrofluorosilicic acid and hydrogen fluoride, and then contacting the carbonaceous materials with an organic solvent capable of dissolving elemental sulfur.

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**C10L 9/02**

IPC 8 full level  
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CPC (source: EP KR US)  
**C10L 9/02** (2013.01 - EP KR US)

Citation (search report)  
• [Y] GB 2158051 A 19851106 - WHITTINGHAM BARRON S  
• [Y] US 4441886 A 19840410 - MUCHMORE CHARLES B [US], et al  
• [Y] US 3926575 A 19751216 - MEYERS ROBERT A  
• See references of WO 03074639A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)  
**WO 03074639 A1 20030912**; AU 2003205451 A1 20030916; AU 2009202202 A1 20090625; AU PS091102 A0 20020328; BR 0308198 A 20041221; CA 2477882 A1 20030912; CN 1296465 C 20070124; CN 1646669 A 20050727; CO 5611206 A2 20060228; EA 006065 B1 20050825; EA 200401152 A1 20050224; EP 1483360 A1 20041208; EP 1483360 A4 20080820; IL 163835 A0 20051218; IL 163835 A 20070724; JP 2005519017 A 20050630; KR 20040106285 A 20041217; MX PA04008579 A 20041213; NO 20043674 L 20041006; NZ 535220 A 20050429; PL 205213 B1 20100331; PL 372337 A1 20050711; UA 77769 C2 20070115; US 2006150474 A1 20060713; ZA 200407112 B 20060222

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**AU 0300258 W 20030305**; AU 2003205451 A 20030305; AU 2009202202 A 20090603; AU PS091102 A 20020305; BR 0308198 A 20030305; CA 2477882 A 20030305; CN 03808842 A 20030305; CO 04094964 A 20040923; EA 200401152 A 20030305; EP 03702221 A 20030305; IL 16383503 A 20030305; IL 16383504 A 20040831; JP 2003573093 A 20030305; KR 20047013851 A 20030305; MX PA04008579 A 20030305; NO 20043674 A 20040902; NZ 53522003 A 20030305; PL 37233703 A 20030305; UA 20041008008 A 20030305; US 50630605 A 20050531; ZA 200407112 A 20040906