

Title (en)
TUNGSTEN CARBIDE MATERIAL

Title (de)
WOLFRAMCARBID-WERKSTOFF

Title (fr)
MATERIAU A BASE DE CARBURE DE TUNGSTENE

Publication
EP 1351881 A4 20050914 (EN)

Application
EP 01964498 A 20010830

Priority
• US 0126875 W 20010830
• US 67551000 A 20000929

Abstract (en)
[origin: WO0228773A1] A high-surface-area tungsten carbide material is provided. The material has a unique structure as defined by its x-ray diffraction pattern and consists of extremely small crystallites on the order of about 15 to about 30 angstroms in size. The high-surface-area of at least about 6 m²/g is desirable for catalyst applications.

IPC 1-7
B01J 27/22; **B01J 37/08**; **B01J 35/00**; **C01B 31/34**

IPC 8 full level
B01J 27/22 (2006.01); **B01J 35/00** (2006.01); **B01J 37/08** (2006.01); **C01B 32/949** (2017.01); **B01J 23/30** (2006.01)

CPC (source: EP)
B01J 27/22 (2013.01); **B82Y 30/00** (2013.01); **C01B 32/949** (2017.07); **B01J 23/30** (2013.01); **C01P 2002/60** (2013.01); **C01P 2002/72** (2013.01); **C01P 2004/64** (2013.01); **C01P 2006/12** (2013.01)

Citation (search report)
• [X] US 5200060 A 19930406 - SAJKOWSKI DANIEL J [US], et al
• [A] US 6090992 A 20000718 - WU AN-HSIANG [US], et al
• [A] WO 0041808 A1 20000720 - HYPERION CATALYSIS INT [US]
• [T] WO 0228544 A1 20020411 - OSRAM SYLVANIA INC [US]
• [A] US 5277987 A 19940111 - GARG DIWAKAR [US], et al
• [A] US 4702784 A 19871027 - NAOUMIDIS ARISTIDES [DE], et al
• [A] US 4325843 A 19820420 - SLAUGH LYNN H, et al
• [A] US 4990372 A 19910205 - SUNDER SWAMINATHAN [US], et al
• See references of WO 0228773A1

Designated contracting state (EPC)
AT BE CH DE FR GB LI

DOCDB simple family (publication)
WO 0228773 A1 20020411; AU 8534301 A 20020415; CA 2421626 A1 20020411; DE 10196680 T1 20030828; EP 1351881 A1 20031015; EP 1351881 A4 20050914; GB 0306436 D0 20030423; GB 2383998 A 20030716; JP 2004510668 A 20040408

DOCDB simple family (application)
US 0126875 W 20010830; AU 8534301 A 20010830; CA 2421626 A 20010830; DE 10196680 T 20010830; EP 01964498 A 20010830; GB 0306436 A 20010830; JP 2002532164 A 20010830