

Title (en)  
CARBIDE AND OXYCARBIDE BASED COMPOSITIONS AND NANORODS

Title (de)  
AUF KARBID UND OXYKARBID BASIERTE ZUSAMMENSETZUNGEN UND NANORÖHRCHEN

Title (fr)  
COMPOSITIONS ET NANOTUBES A BASE DE CARBURE ET D'OXYCARBURE

Publication  
**EP 1152827 A1 20011114 (EN)**

Application  
**EP 00903266 A 20000112**

Priority  
• US 0000753 W 20000112  
• US 11573599 P 19990112

Abstract (en)  
[origin: WO0041808A1] Compositions including oxycarbide-based nanorods and/or carbide-based nanorods and/or carbon nanotubes bearing carbides and oxycarbides and methods of making the same are provided. Rigid porous structures including oxycarbide-based nanorods and/or carbide based nanorods and/or carbon nanotubes bearing carbides and oxycarbides and methods of making the same are also provided. The compositions and rigid porous structures of the invention can be used either as catalyst and/or catalyst supports in fluid phase catalytic chemical reactions. Processes for making supported catalyst for selected fluid phase catalytic reactions are also provided. The fluid phase catalytic reactions catalyzed include hydrogenation, hydrodesulfurisation, hydrodenitrogenation, hydrodemetallisation, hydrodeoxygenation, hydrodearomatization, dehydrogenation, hydrogenolysis, isomerization, alkylation, dealkylation and transalkylation.

IPC 1-7  
**B01J 27/22**; **C01B 13/14**; **C03B 25/00**

IPC 8 full level  
**C04B 38/00** (2006.01); **B01J 27/22** (2006.01); **B01J 27/224** (2006.01); **B01J 32/00** (2006.01); **B01J 35/10** (2006.01); **C01B 31/02** (2006.01); **C01B 31/30** (2006.01); **C10G 45/04** (2006.01); **C10G 45/10** (2006.01); **C10G 45/46** (2006.01); **C10G 45/52** (2006.01); **C10G 45/62** (2006.01); **C10G 47/02** (2006.01); **C10G 47/14** (2006.01); **C30B 23/00** (2006.01)

CPC (source: EP KR)  
**B01J 27/22** (2013.01 - EP KR); **B82Y 30/00** (2013.01 - EP KR); **B82Y 40/00** (2013.01 - EP KR); **C01B 32/168** (2017.07 - EP); **C01B 32/907** (2017.07 - EP); **C30B 23/00** (2013.01 - EP KR); **C30B 29/605** (2013.01 - EP KR); **C01B 2202/36** (2013.01 - EP KR); **C01P 2002/72** (2013.01 - EP KR); **C01P 2004/03** (2013.01 - EP KR); **C01P 2004/04** (2013.01 - EP KR); **C01P 2004/13** (2013.01 - EP KR); **C01P 2004/50** (2013.01 - EP KR); **C01P 2004/64** (2013.01 - EP KR); **C01P 2004/80** (2013.01 - EP); **C01P 2004/82** (2013.01 - EP KR); **C01P 2006/10** (2013.01 - EP KR); **C01P 2006/14** (2013.01 - EP KR); **C01P 2006/60** (2013.01 - EP KR); **C01P 2006/80** (2013.01 - EP KR)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0041808 A1 20000720**; **WO 0041808 A9 20010712**; AU 2504000 A 20000801; AU 764311 B2 20030814; CA 2359336 A1 20000720; EP 1152827 A1 20011114; EP 1152827 A4 20021106; JP 2002534351 A 20021015; JP 4689045 B2 20110525; KR 100907214 B1 20090710; KR 20010089809 A 20011008

DOCDB simple family (application)  
**US 0000753 W 20000112**; AU 2504000 A 20000112; CA 2359336 A 20000112; EP 00903266 A 20000112; JP 2000593411 A 20000112; KR 20017008727 A 20000112