Title (en)

PRODUCTION OF TAILORED METAL OXIDE MATERIALS USING A REACTION SOL-GEL APPROACH

Title (de)

HERSTELLUNG ZUGESCHNITTENER METALLOXIDMATERIALIEN MITHILFE EINES REAKTIONS-SOL-GEL-ANSATZES

Title (fr)

PRODUCTION DE MATIÈRES EN OXYDE MÉTALLIQUE AJUSTÉES SUR MESURE À L'AIDE D'UNE APPROCHE SOL-GEL DE LA RÉACTION

Publication

EP 2276694 A4 20131204 (EN)

Application

EP 09842828 A 20090403

Priority

US 2009039510 W 20090403

Abstract (en)

[origin: WO2010114561A1] A porous metal oxide is formed by creating a metal oxide material with a hydrolysis reaction in solution. The hydrolysis reaction or reaction products of a metal oxide precursor react simultaneously or in conjunction with a metal salt or a disassociation species of a metal salt. The metal oxide material is conditioned, and is refined to produce metal oxide particles having a porous structure containing crystallites.

IPC 8 full level

C01B 13/32 (2006.01); **C04B 35/01** (2006.01); **C04B 38/06** (2006.01)

CPC (source: EP)

B01J 21/063 (2013.01); **B01J 35/39** (2024.01); **B01J 35/613** (2024.01); **B01J 35/69** (2024.01); **B01J 35/695** (2024.01); **B01J 37/033** (2013.01); **B82Y 30/00** (2013.01); **C01B 13/326** (2013.01); **C01G 9/02** (2013.01); **C01G 15/00** (2013.01); **C01G 23/047** (2013.01); **C01G 49/04** (2013.01); **C01G 49/06** (2013.01); B01J 21/06 (2013.01); C01P 2002/60 (2013.01); C01P 2004/64 (2013.01); C01P 2006/10 (2013.01); C01P 2006/12 (2013.01); C01P 2006/14 (2013.01); C01P 2006/16 (2013.01); C01P 2006/17 (2013.01)

Citation (search report)

- [X] WO 2008147359 A1 20081204 - CARRIER CORP [US], et al
- [X] JP 2006027933 A 20060202 - TOYOTA MOTOR CORP
- [X] WO 0236494 A1 20020510 - AUSTRALIAN NUCLEAR SCIENCE TEC [AU], et al
- See references of WO 2010114561A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2010114561 A1 20101007; CN 102105393 A 20110622; EP 2276694 A1 20110126; EP 2276694 A4 20131204

DOCDB simple family (application)

US 2009039510 W 20090403; CN 200980121302 A 20090403; EP 09842828 A 20090403