

Title (en)

POROUS PELLET ADSORBENTS FABRICATED FROM NANOCRYSTALS

Title (de)

AUS NANOKRISTALLEN HERGESTELLTE PORÖSE PELLET-ADSOBENTIEN

Title (fr)

ADSORBANTS EN GRANULES POREUX FABRIQUES A PARTIR DE MONOCRISTAUX

Publication

EP 1091801 A1 20010418 (EN)

Application

EP 99927082 A 19990518

Priority

- US 9910989 W 19990518
- US 8765798 A 19980530
- US 9324998 A 19980608

Abstract (en)

[origin: WO9962630A1] Pelletized adsorbent compositions and methods of adsorbing toxic target compounds are provided for the destructive adsorption or chemisorption of toxic or undesired compounds. The pelletized adsorbents are formed by pressing together powder nanocrystalline particles comprising a metal hydroxide or a metal oxide at pressures of from about 50 psi to about 6000 psi to form discrete self-sustaining bodies. The pelletized bodies should retain at least about 25 % of the surface area/unit mass and total pore volume of the starting metal particles.

IPC 1-7

B01J 20/02; **B01J 20/10**; **B01J 20/00**; **B27N 3/00**; **B27N 3/18**

IPC 8 full level

B01J 20/02 (2006.01); **B01D 53/04** (2006.01); **B01J 20/04** (2006.01); **B01J 20/06** (2006.01); **B01J 20/28** (2006.01)

CPC (source: EP US)

B01D 53/02 (2013.01 - EP US); **B01J 20/041** (2013.01 - EP US); **B01J 20/06** (2013.01 - EP US); **B01J 20/28014** (2013.01 - EP US); **B01J 20/2803** (2013.01 - EP US); **B01J 20/28057** (2013.01 - EP US); **B01J 20/28069** (2013.01 - EP US); **B01J 20/28078** (2013.01 - EP US); **B01J 20/28095** (2013.01 - EP US); **B01J 20/3021** (2013.01 - EP US); **B01J 20/3035** (2013.01 - EP US); **B01D 2253/10** (2013.01 - EP US); **B01D 2253/112** (2013.01 - EP US); **B01D 2253/304** (2013.01 - EP US); **B01D 2253/306** (2013.01 - EP US); **B01D 2253/308** (2013.01 - EP US); **B01D 2257/2064** (2013.01 - EP US); **B01D 2257/302** (2013.01 - EP US); **B01D 2257/404** (2013.01 - EP US); **B01D 2257/502** (2013.01 - EP US); **B01D 2257/70** (2013.01 - EP US); **B01D 2257/7027** (2013.01 - EP US); **B01D 2258/0225** (2013.01 - EP US)

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 9962630 A1 19991209; AU 4406799 A 19991220; CA 2333448 A1 19991209; CA 2333448 C 20081230; EP 1091801 A1 20010418; EP 1091801 A4 20060510; IL 139814 A0 20020210; US RE39098 E 20060523

DOCDB simple family (application)

US 9910989 W 19990518; AU 4406799 A 19990518; CA 2333448 A 19990518; EP 99927082 A 19990518; IL 13981499 A 19990518; US 93347401 A 20010817