

Title (en)
SOLID PARTICLE MANUFACTURE

Title (de)
FESTSTOFFTEILCHENHERTSELLUNG

Title (fr)
FABRICATION DE PARTICULES SOLIDES

Publication
EP 1044161 A1 20001018 (EN)

Application
EP 98948071 A 19980914

Priority
• US 9818169 W 19980914
• US 94835897 A 19971010

Abstract (en)
[origin: WO9919251A1] A method for making solid particles containing a mixture of solid crystalline metal oxide and/or salt compounds comprising the steps of: admixing particulate metal compounds to form a dry solids blend of at least two different crystalline solids; comminuting coarse, dry blended particulate solids, preferably in a micronizer mill by impelling the solids blend with high pressure dry inert gas against a hard plate surface, thereby producing finely-divided crystalline solids; recovering a comminuted solids blend having an average particle size of about 1-5 microns; forming an aqueous slurry of the comminuted solids blend, preferably having a weight ratio of free water to solids less than 2:1; drying the aqueous slurry to form agglomerated particles having an average size range greater than about 20 microns; and recovering dry agglomerated particles having enhanced attrition resistance and particle size uniformity. This manufacturing method is particularly useful in making multi-component contact solids.

IPC 1-7
C01B 7/00; B01J 8/00

IPC 8 full level
B01J 2/00 (2006.01); **B01J 20/06** (2006.01); **B01J 20/30** (2006.01); **B01J 37/00** (2006.01); **B01J 37/02** (2006.01); **B01J 37/04** (2006.01)

CPC (source: EP)
B01J 2/00 (2013.01); **B01J 20/06** (2013.01); **B01J 20/30** (2013.01); **B01J 37/0036** (2013.01); **B01J 37/0072** (2013.01); **B01J 37/0236** (2013.01); **B01J 37/04** (2013.01)

Designated contracting state (EPC)
BE CH DE DK ES FI FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 9919251 A1 19990422; AU 9472098 A 19990503; EP 1044161 A1 20001018; EP 1044161 A4 20020710

DOCDB simple family (application)
US 9818169 W 19980914; AU 9472098 A 19980914; EP 98948071 A 19980914