

Title (en)  
METHOD FOR COATING PARTICLES

Title (de)  
VERFAHREN ZUR BESCHICHTUNG VON TEILCHEN

Title (fr)  
PROCEDE POUR L'ENROBAGE DE PARTICULES

Publication  
**EP 1165223 A1 20020102 (FR)**

Application  
**EP 00915229 A 20000328**

Priority  
• FR 0000771 W 20000328  
• FR 9904175 A 19990402

Abstract (en)  
[origin: FR2791580A1] The precursor coating is dispersed in a fluid under supercritical conditions of temperature and pressure then decomposed with metal deposition and the solvent evacuated in gaseous form. The process applies to particles of nanometric to micrometric dimensions, 1 nm to 100  $\mu$ . Process for the deposition of a film on the surface or in the pores of porous particles by the stages: (a) contact of the particles to be coated with a precursor organo-metallic complex of the coating material (optionally associated with one or more supplementary organo-metallic complexes), the particles being dispersed in the fluid and submitted to supercritical or slightly subcritical pressure and temperature conditions; (b) transformation of the precursor to initiate deposition of metal on the particulate substrate; (c) elimination of the solvent fluid by adjustment of pressure and temperature conditions. An Independent claim is also included for the coated particles thereby obtained.

IPC 1-7  
**B01J 2/00**; **B05D 1/02**; **C23C 18/00**

IPC 8 full level  
**B01J 2/00** (2006.01); **B01J 3/00** (2006.01); **B22F 1/02** (2006.01); **B22F 1/17** (2022.01); **B22F 1/18** (2022.01); **C23C 18/00** (2006.01); **C23C 24/08** (2006.01); **G11B 5/712** (2006.01); **G11B 5/714** (2006.01)

CPC (source: EP US)  
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