

Title (en)  
COMPOSITE CARRIER FOR POWDERY DRUGS, A METHOD OF THE CARRIER MANUFACTURING AND A PLANT FOR MANUFACTURING THE COMPOSITE CARRIER PARTICLES

Title (de)  
VERBUNDTRÄGER FÜR PULVERFÖRMIGE MEDIKAMENTE, VERFAHREN ZUR HERSTELLUNG DES TRÄGERS UND ANLAGE ZUR HERSTELLUNG DER VERBUNDTRÄGERPARTIKEL

Title (fr)  
SUPPORT COMPOSITE POUR MÉDICAMENTS PULVÉRULENTS, PROCÉDÉ DE FABRICATION DU SUPPORT ET ÉQUIPEMENT POUR LA FABRICATION DES PARTICULES DE SUPPORT COMPOSITE

Publication  
**EP 2278959 A2 20110202 (EN)**

Application  
**EP 09735696 A 20090420**

Priority  
• PL 2009000036 W 20090420  
• PL 38498408 A 20080421

Abstract (en)  
[origin: WO2009131473A2] The invention relates to a composite carrier for powdery drugs which is a carrier particle permanently bound with a drug particle, where the composite carrier is in form of particles permanently bound into aggregates containing mucolytics and surfactants in its structure. The drug carrier manufacturing method consists in that the composite carrier particles are manufactured from a solution of the composite constituents, by atomization of the solution to the form of droplets, followed by controlled evaporation of the solvent, and segregation of dried particles. The plant for manufacturing carrier particles is provided with a system (1) for generation of liquid aerosol from solution/suspension, followed by a multi-step drying system (2) with controlled heating zones, a system (3) for pre-separation of a non-respirable fraction of powder particles, and a respirable fraction separation system (4).

IPC 8 full level  
**A61K 9/16** (2006.01); **A61K 9/72** (2006.01)

CPC (source: EP)  
**A61K 9/0075** (2013.01); **A61K 9/1617** (2013.01); **A61K 9/1623** (2013.01); **A61K 9/1694** (2013.01)

Citation (search report)  
See references of WO 2009131473A2

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

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2009131473 A2 20091029; WO 2009131473 A3 20091223; WO 2009131473 A8 20110428**; EP 2278959 A2 20110202; EP 2340816 A1 20110706; EP 2340817 A1 20110706; PL 220269 B1 20150930

DOCDB simple family (application)  
**PL 2009000036 W 20090420**; EP 09735696 A 20090420; EP 11150815 A 20090420; EP 11150820 A 20090420; PL 38498408 A 20080421