

Title (en)
BIODEGRADABLE VEHICLES AND DELIVERY SYSTEMS OF BIOLOGICALLY ACTIVE SUBSTANCES

Title (de)
BIOLOGISCH ABBAUBARES TRÄGER-MATERIAL SOWIE ABGABESYSTEME FÜR BIOLOGISCH AKTIVE SUBSTANZEN

Title (fr)
VEHICULES BIODEGRADABLES ET SYSTEMES D'ADMINISTRATION DE SUBSTANCES BIOLOGIQUEMENT ACTIVES

Publication
EP 1299048 A1 20030409 (EN)

Application
EP 01918249 A 20010226

Priority

- CN 00120871 A 20000803
- IN 694MU2000 A 20000725
- US 0106138 W 20010226
- US 60566100 A 20000628

Abstract (en)
[origin: WO0200137A1] Biodegradable vehicle and delivery systems of physiologically, pharmacologically and biologically active substance(s) (BAS) are provided. The biodegradable vehicles may be prepared by blending biodegradable polymers and plasticizers using a novel solvent evaporation method. This method involves dissolving the biodegradable polymer or copolymer and a plasticizer or mixtures of plasticizers into a volatile solvent or mixtures of volatile solvents. The volatile solvent is then removed using vacuum or at an elevated temperature or using a combination of both vacuum and elevated temperature. The biodegradable vehicle can be used as filler or spacer in the body. Biologically active substances (BAS) can be added to the biodegradable vehicle at any step during or after preparing the biodegradable vehicle, or just prior to using the biodegradable delivery system. This biodegradable delivery system provides controlled release of the BAS over the desired period of time. The biodegradable vehicle or BAS-loaded biodegradable delivery system can be injected, implanted, smeared or applied in vivo in an animal, bird or human.

IPC 1-7
A61F 2/00; A61F 13/00; A61K 9/22

IPC 8 full level
A61F 2/00 (2006.01); **A61F 13/00** (2006.01); **A61K 9/00** (2006.01); **A61K 9/06** (2006.01); **A61K 9/08** (2006.01); **A61K 9/16** (2006.01); **A61K 9/22** (2006.01); **A61K 31/00** (2006.01); **A61K 38/00** (2006.01); **A61K 47/08** (2006.01); **A61K 47/10** (2006.01); **A61K 47/14** (2006.01); **A61K 47/16** (2006.01); **A61K 47/30** (2006.01); **A61K 47/32** (2006.01); **A61K 47/34** (2006.01); **A61K 47/42** (2006.01); **A61L 27/00** (2006.01); **A61L 31/04** (2006.01); **A61L 31/14** (2006.01); **A61L 31/16** (2006.01); **C08L 101/16** (2006.01); **A61K 47/22** (2006.01)

CPC (source: EP)
A61K 9/0019 (2013.01); **A61K 9/0024** (2013.01); **A61K 9/1647** (2013.01); **A61K 9/1694** (2013.01); **A61K 31/00** (2013.01); **A61K 47/34** (2013.01); **A61L 31/041** (2013.01); **A61L 31/141** (2013.01); **A61L 31/148** (2013.01); **A61L 31/16** (2013.01); **C08K 5/11** (2013.01); **A61K 9/06** (2013.01); **A61K 47/10** (2013.01); **A61K 47/14** (2013.01); **A61K 47/22** (2013.01); **A61L 2300/602** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0200137 A1 20020103; AU 4534601 A 20020108; CA 2413157 A1 20020103; CN 1283215 C 20061108; CN 1438858 A 20030827; EP 1299048 A1 20030409; EP 1299048 A4 20050928; JP 2004511431 A 20040415; NZ 523385 A 20050930

DOCDB simple family (application)
US 0106138 W 20010226; AU 4534601 A 20010226; CA 2413157 A 20010226; CN 01811851 A 20010226; EP 01918249 A 20010226; JP 2002504922 A 20010226; NZ 52338501 A 20010226