

Title (en)

MULTI-STAGED ABSORBABLE NONWOVEN STRUCTURES FOR CULTURING PANCREATIC CELLS

Title (de)

MEHRSTUFIGE ABSORBIERBARE VLIESSTRUKTUREN ZUR KULTIVIERUNG VON PANKREASZELLEN

Title (fr)

STRUCTURES NON-TISSEES ABSORBABLES A ETAGES MULTIPLES PERMETTANT LA CULTURE DE CELLULES PANCREATIQUES

Publication

EP 1644478 A2 20060412 (EN)

Application

EP 04777320 A 20040629

Priority

- US 2004021044 W 20040629
- US 48380503 P 20030630

Abstract (en)

[origin: WO2005005609A2] The present invention provides an implantable biodegradable device containing a fibrous matrix, which matrix is constructed from fibers A and fibers B, wherein fibers A biodegrade faster than fibers B, and fibers A and fibers B are present in relative amounts and are organized such that the fibrous matrix possesses properties desirable for seeding and subsequent transplantation of cells bearing at least one characteristic of a pancreatic cell. The present invention also provides an implantable biodegradable device containing a fibrous matrix, which matrix has been seeded with cells bearing at least one characteristic of a pancreatic cell. Furthermore, the present invention provides a method for treating diabetes by implanting a device with seeded cells in a diabetic patient.

IPC 1-7

C12N 1/00

IPC 8 full level

A61L 27/34 (2006.01); **A61L 27/38** (2006.01); **A61L 27/48** (2006.01); **A61L 27/56** (2006.01); **A61L 27/58** (2006.01); **C12N 5/00** (2006.01); **C12N 5/06** (2006.01); **C12N 5/071** (2010.01); **C12N 11/04** (2006.01); **C12N 11/08** (2006.01); **A61F 2/00** (2006.01); **A61F 2/02** (2006.01); **A61K 35/12** (2006.01)

IPC 8 main group level

C12N (2006.01)

CPC (source: EP)

A61L 27/34 (2013.01); **A61L 27/3804** (2013.01); **A61L 27/48** (2013.01); **A61L 27/56** (2013.01); **A61L 27/58** (2013.01); **C12N 5/0676** (2013.01); **A61F 2/022** (2013.01); **A61F 2250/003** (2013.01); **A61K 35/12** (2013.01); **C12N 2533/40** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005005609 A2 20050120; **WO 2005005609 A3 20070809**; EP 1644478 A2 20060412; EP 1644478 A4 20080723

DOCDB simple family (application)

US 2004021044 W 20040629; EP 04777320 A 20040629