

Title (en)

MICROFABRICATED CAPSULES FOR ISOLATION OF CELL TRANSPLANTS

Title (de)

MIKROHERGESTELLTE KAPSELN ZUR ISOLIERUNG VON ZELLTRANSPLANTATEN

Title (fr)

CAPSULES MICROFABRIQUEES SERVANT A ISOLER DES TRANSPLANTS CELLULAIRES

Publication

**EP 0749474 A1 19961227 (EN)**

Application

**EP 95912741 A 19950307**

Priority

- US 9502752 W 19950307
- US 20745794 A 19940307
- US 20745994 A 19940307
- US 25433094 A 19940606

Abstract (en)

[origin: WO9524472A1] The present invention provides a capsule (20) made of biologically compatible materials with sufficient mechanical strength to form annular side walls (22) and very thin membrane shell end faces (24 and 26) with approximately uniformly sized and spaced pores that are large enough to let a desired biologically active molecular product through, while blocking the passage of all larger immunological molecules. The present invention thus provides an immunological isolation of cell transplants contained therein. The present invention also provides a free standing thin film structure that may be used as a component of such a capsule (20), methods for the fabrication of such capsules (20) and a method of using such capsules (20) in administering a biologically active molecule to a host organism.

IPC 1-7

**C12N 11/14**

IPC 8 full level

**A61F 2/02** (2006.01); **A61K 9/00** (2006.01); **A61K 9/50** (2006.01); **A61K 9/52** (2006.01); **B01D 39/16** (2006.01); **B01D 39/20** (2006.01); **B01D 67/00** (2006.01); **B01D 69/02** (2006.01); **B01D 69/12** (2006.01); **B01D 71/02** (2006.01); **B01J 13/02** (2006.01); **B81B 1/00** (2006.01); **B81C 1/00** (2006.01); **C04B 41/45** (2006.01); **C23C 16/01** (2006.01); **G03F 7/00** (2006.01)

CPC (source: EP US)

**A61K 9/0024** (2013.01 - EP); **A61K 9/0097** (2013.01 - EP); **B01D 39/1692** (2013.01 - EP); **B01D 39/20** (2013.01 - EP); **B01D 67/0058** (2013.01 - EP); **B01D 67/0062** (2013.01 - EP); **B01D 67/0072** (2013.01 - EP); **B01D 69/02** (2013.01 - EP); **B01D 71/0213** (2022.08 - EP US); **B01D 71/0215** (2022.08 - EP US); **B01J 13/02** (2013.01 - EP); **C04B 41/4582** (2013.01 - EP); **C23C 16/01** (2013.01 - EP); **G03F 7/00** (2013.01 - EP); **G03F 7/0015** (2013.01 - EP); **B01D 2325/04** (2013.01 - EP)

Designated contracting state (EPC)

FR GB

DOCDB simple family (publication)

**WO 9524472 A1 19950914**; AU 1979995 A 19950925; EP 0749474 A1 19961227; EP 0749474 A4 19970917; JP H09512250 A 19971209

DOCDB simple family (application)

**US 9502752 W 19950307**; AU 1979995 A 19950307; EP 95912741 A 19950307; JP 52356195 A 19950307