

Title (en)

MICROPORATION OF TISSUE FOR DELIVERY OF BIOACTIVE AGENTS

Title (de)

MIKROPORATION VON GEWEBE ZUR BIOAKTIVE-MITTEL-ABGABE

Title (fr)

FORMATION DE MICROPORES SUR UN TISSU POUR L'ADMINISTRATION D'AGENTS BIOACTIFS

Publication

EP 0952850 A2 19991103 (EN)

Application

EP 97952676 A 19971230

Priority

- US 9724127 W 19971230
- US 77841596 A 19961231
- US 9711670 W 19970703

Abstract (en)

[origin: WO9829134A2] A method of enhancing the permeability of a biological membrane, including the skin or mucosa of an animal or the outer layer of a plant to a permeant is described utilizing microporation of selected depth and optionally one or more of sonic, electromagnetic, mechanical and thermal energy and a chemical enhancer. Microporation is accomplished to form a micropore of selected depth in the biological membrane and the porated site is contacted with the permeant. Additional permeation enhancement measures may be applied to the site to enhance both the flux rate of the permeant into the organism through the micropores as well as into targeted tissues within the organism.

IPC 1-7

A61K 41/00

IPC 8 full level

A61K 9/00 (2006.01); **A61K 9/127** (2006.01); **A61K 31/485** (2006.01); **A61K 31/56** (2006.01); **A61K 31/7105** (2006.01); **A61K 31/711** (2006.01); **A61K 31/715** (2006.01); **A61K 31/727** (2006.01); **A61K 38/00** (2006.01); **A61K 38/04** (2006.01); **A61K 38/28** (2006.01); **A61K 39/395** (2006.01); **A61K 41/00** (2006.01); **A61M 37/00** (2006.01); **A61B 17/00** (2006.01)

CPC (source: EP)

A61B 5/14514 (2013.01); **A61K 9/0009** (2013.01); **A61K 41/0047** (2013.01); **A61M 37/0092** (2013.01); **A61B 2017/00172** (2013.01); **A61M 2037/0007** (2013.01)

Citation (search report)

See references of WO 9829134A2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9829134 A2 19980709; **WO 9829134 A3 19981015**; AT E365026 T1 20070715; AU 5623298 A 19980731; CA 2276312 A1 19980709; CA 2276312 C 20121127; CA 2789115 A1 19980709; CA 2789115 C 20140429; DE 69737836 D1 20070802; DE 69737836 T2 20080306; DK 1314400 T3 20071015; EP 0952850 A2 19991103; EP 1314400 A2 20030528; EP 1314400 A3 20031015; EP 1314400 B1 20070620; ES 2289192 T3 20080201; JP 2001512329 A 20010821; JP 2008307391 A 20081225; JP 2010005425 A 20100114; JP 2013099586 A 20130523; JP 2013165967 A 20130829; JP 5657040 B2 20150121; JP 5680685 B2 20150304

DOCDB simple family (application)

US 9724127 W 19971230; AT 03002035 T 19971230; AU 5623298 A 19971230; CA 2276312 A 19971230; CA 2789115 A 19971230; DE 69737836 T 19971230; DK 03002035 T 19971230; EP 03002035 A 19971230; EP 97952676 A 19971230; ES 03002035 T 19971230; JP 2008157298 A 20080616; JP 2009203124 A 20090902; JP 2013016445 A 20130131; JP 2013046499 A 20130308; JP 53029898 A 19971230