

Title (en)

DRUG DELIVERY SYSTEM INCLUDING A DRUG TRANSPORT ENHANCEMENT MECHANISM

Title (de)

VERABREICHUNGSSYSTEM FÜR MEDIKAMENTE MIT EINEM MECHANISMUS ZUR AKTIVIERUNGDES TRANSPORTES

Title (fr)

SYSTEME D'ADMINISTRATION DE MEDICAMENT DOTE D'UN MECANISME D'ACTIVATION DU TRANSPORT D'UN MEDICAMENT

Publication

EP 0989879 A4 20010530 (EN)

Application

EP 98926143 A 19980601

Priority

- US 9811100 W 19980601
- US 87915697 A 19970619
- US 6788898 A 19980428
- US 6788998 A 19980428

Abstract (en)

[origin: WO9857696A1] A drug delivery system includes a container (174) in which a shock wave is generated for transmission to a target material, and a drug enhancement mechanism for enhancing absorption of a medicament by the target material. The container (174) includes a shock generating chamber (322), a shock tube (308) coupled to the shock generating chamber (322) having a membrane (310) mounted to a distal end through which the shock wave is transmitted, and a shock wave generating mechanism disposed within the shock generating chamber (322). Illustrative drug enhancement mechanisms include ultrasound, iontophoresis, high-pressure gradients, mechanical vibration, and surfactant. The shock generating mechanism may take various forms, including a rapidly openness divider and electric discharge.

IPC 1-7

A61M 37/00

IPC 8 full level

A61B 17/22 (2006.01); **A61M 37/00** (2006.01); **A61N 1/30** (2006.01)

CPC (source: EP)

A61B 17/22012 (2013.01); **A61B 17/22022** (2013.01); **A61M 37/0092** (2013.01); **A61N 1/30** (2013.01); **A61M 2037/0007** (2013.01)

Citation (search report)

- [YX] WO 9625190 A1 19960822 - OXFORD BIOSCIENCES LTD [GB], et al
- [YX] US 5421816 A 19950606 - LIPKOVKER LEV M [US]
- [A] US 5016615 A 19910521 - DRILLER JACK [US], et al
- [A] WO 9710023 A2 19970320 - APEX LAB [US], et al
- See references of WO 9857696A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9857696 A1 19981223; **WO 9857696 A9 20000217**; AU 7804898 A 19990104; CA 2294202 A1 19981223; EP 0989879 A1 20000405; EP 0989879 A4 20010530

DOCDB simple family (application)

US 9811100 W 19980601; AU 7804898 A 19980601; CA 2294202 A 19980601; EP 98926143 A 19980601