

Title (en)

MODULAR MICRONEEDLE TRANSPORT DEVICE

Title (de)

MODULARE MIKRONADEL-TRANSPORTVORRICHTUNG

Title (fr)

DISPOSITIF DE TRANSPORT MODULAIRE À MICRO-AIGUILLE

Publication

EP 2598198 A1 20130605 (DE)

Application

EP 11730957 A 20110707

Priority

- DE 102010038733 A 20100730
- EP 2011061547 W 20110707

Abstract (en)

[origin: WO2012013472A1] The invention relates to a modular microneedle transport device (1; 1') comprising a first module (20; 20') that includes a fluid reservoir (23; 23') for receiving a transport fluid (F), a microneedle unit (22), and a micropump unit (24) for pumping the transport fluid (F) from the fluid reservoir (23; 23') into the microneedle unit (22) and/or vice versa; and further comprising a second module (10; 10') comprising an actuator unit (10a) and a battery-powered control unit (10b); wherein the second module (10; 10') can be mounted in a recess (50) of the first module (20; 20'); and wherein the micropump unit (24) can be mechanically actuated by the actuator unit (10a) by means of a pressure actuation surface (UP) provided in the recess (50) when the second module (10; 10') is mounted.

IPC 8 full level

A61M 37/00 (2006.01); **A61K 9/00** (2006.01); **F04B 43/04** (2006.01)

CPC (source: EP)

A61B 5/150022 (2013.01); **A61B 5/150229** (2013.01); **A61B 5/150267** (2013.01); **A61B 5/150969** (2013.01); **A61B 5/150984** (2013.01); **A61M 5/14248** (2013.01); **A61M 37/0015** (2013.01); **F04B 19/006** (2013.01); **A61M 5/14586** (2013.01); **A61M 2005/14268** (2013.01); **A61M 2037/0023** (2013.01); **A61M 2037/0046** (2013.01); **A61M 2205/0244** (2013.01); **A61M 2205/8206** (2013.01)

Citation (search report)

See references of WO 2012013472A1

Citation (examination)

- WO 2008008845 A2 20080117 - MICROCHIPS INC [US], et al
- US 2005065466 A1 20050324 - VEDRINE LIONEL [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102010038733 A1 20120202; EP 2598198 A1 20130605; WO 2012013472 A1 20120202

DOCDB simple family (application)

DE 102010038733 A 20100730; EP 11730957 A 20110707; EP 2011061547 W 20110707