

Title (en)

IONTOPHORETIC DELIVERY OF AN AGENT INTO CARDIAC TISSUE

Title (de)

IONTOPHORETISCHE VERABREICHUNG EINES MEDIKAMENTS IN DAS HERZGEWEBE

Title (fr)

INJECTION IONTOPHORETIQUE D'UNE SUBSTANCE ACTIVE DANS LES TISSUS CARDIAQUES

Publication

**EP 0932428 A1 19990804 (EN)**

Application

**EP 98937969 A 19980722**

Priority

- US 9815051 W 19980722
- US 89865697 A 19970722

Abstract (en)

[origin: WO9904851A1] An apparatus for delivering an agent directly into a cardiac muscle. The apparatus comprises an elongated member. The elongated member defines a deployment lumen and a distal tip. A hollow needle is configured to be inserted into the cardiac muscle. The needle is operably connected to the elongated member. The needle has a side portion and defines an outlet port in the side portion. First and second electrodes are configured to be electrically connected to a power supply. The first electrode is positioned to be in direct electrical communication with agent flowing through the outlet port.

IPC 1-7

**A61N 1/30**

IPC 8 full level

**A61N 1/30** (2006.01); **A61M 25/00** (2006.01)

CPC (source: EP)

**A61N 1/306** (2013.01); **A61M 2025/0089** (2013.01)

Citation (search report)

See references of WO 9904851A1

Designated contracting state (EPC)

BE DE ES FR GB IT LU NL

DOCDB simple family (publication)

**WO 9904851 A1 19990204**; AU 8659598 A 19990216; EP 0932428 A1 19990804; JP 2002512552 A 20020423

DOCDB simple family (application)

**US 9815051 W 19980722**; AU 8659598 A 19980722; EP 98937969 A 19980722; JP 50997499 A 19980722