

Title (en)

COOLING THERAPIES/DEVICE FOR ANGIOPLASTY WITH RESTENOSIS

Title (de)

KÄLTETHERAPIEN/GERÄT ZUR ANGIOPLASTIE MIT RESTENOSE

Title (fr)

THERAPIES DE REFROIDISSEMENT/DISPOSITIF POUR ANGIOPLASTIE AVEC RESTENOSE

Publication

EP 1261304 A1 20021204 (EN)

Application

EP 01916337 A 20010301

Priority

- US 0106648 W 20010301
- US 51631900 A 20000301

Abstract (en)

[origin: WO0164145A1] The present invention provides an enhanced method and device to inhibit or reduce the rate of restenosis following angioplasty or stent placement. The invention involves placing a balloon tipped catheter (100) in the area treated or opened through balloon angioplasty immediately following angioplasty. The balloon, which can have a dual balloon structure, may be delivered through a guiding catheter (102) and over a guidewire already in place from a balloon angioplasty. A fluid such as a perfluorocarbon may be flowed into the balloon to freeze the tissue adjacent the balloon, this cooling being associated with reduction of restenosis. The catheter may also be used to reduce atrial fibrillation by inserting and inflating the balloon such that an exterior surface of the balloon is in contact with at least a partial circumference of the portion of the pulmonary vein adjacent the left atrium.

IPC 1-7

A61F 7/00

IPC 8 full level

A61B 17/00 (2006.01); **A61B 18/02** (2006.01); **A61F 7/12** (2006.01); **A61M 25/00** (2006.01); **A61B 17/22** (2006.01); **A61B 18/00** (2006.01)

CPC (source: EP)

A61B 18/02 (2013.01); **A61B 2017/22002** (2013.01); **A61B 2017/22054** (2013.01); **A61B 2018/00023** (2013.01); **A61B 2018/0022** (2013.01); **A61B 2018/0212** (2013.01); **A61B 2018/0262** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0164145 A1 20010907; AU 2001243374 B2 20050203; AU 4337401 A 20010912; CA 2400753 A1 20010907; EP 1261304 A1 20021204; EP 1261304 A4 20050608; JP 2003524506 A 20030819

DOCDB simple family (application)

US 0106648 W 20010301; AU 2001243374 A 20010301; AU 4337401 A 20010301; CA 2400753 A 20010301; EP 01916337 A 20010301; JP 2001563045 A 20010301