

Title (en)

ABRASIVE DRIVE SHAFT DEVICE FOR ROTATIONAL ATHERECTOMY

Title (de)

ROTIERENDE ANTRIEBSWELLE MIT ABRASIONSSEGMENTEN FÜR DIE ATHEREKTOMIE

Title (fr)

DISPOSITIF D'ATHERECTOMIE PAR ROTATION UTILISANT UNE TIGE D'ENTRAÎNEMENT ABRASIVE

Publication

**EP 0746244 A1 19961211 (EN)**

Application

**EP 94905453 A 19931217**

Priority

- US 9312411 W 19931217
- US 1244493 A 19930202

Abstract (en)

[origin: WO9417739A1] An abrasive drive shaft atherectomy device for removing stenotic tissue from an artery. The device includes a flexible, elongated drive shaft (50) having a central lumen for receipt of a guide wire (90) therein and around which the drive shaft (50) may be rotated. The drive shaft (50) is made from one or more helically wound wires. Wire turns (58) of the proximal segment of the drive shaft have a generally constant diameter. Wire turns (58) of a segment of the drive shaft (50) near its distal end have an enlarged diameter. At least part of the enlarged diameter segment includes an external coating (44) of an abrasive material to define an abrasive segment of the drive shaft which, when rotated at high speeds, is usable to remove stenotic tissue from an artery. In a preferred embodiment, the device includes a bushing (81) disposed in the enlarged diameter segment for supporting the enlarged diameter turns of the drive shaft.

IPC 1-7

**A61B 17/32**

IPC 8 full level

**A61B 17/00** (2006.01); **A61B 17/22** (2006.01); **A61B 17/32** (2006.01); **A61B 19/00** (2006.01); **A61F 2/00** (2006.01)

CPC (source: EP)

**A61B 17/320758** (2013.01); **A61B 2017/00553** (2013.01); **A61B 2017/00853** (2013.01); **A61B 2017/00924** (2013.01); **A61B 2017/22038** (2013.01); **A61B 2017/320004** (2013.01); **A61B 2017/320733** (2013.01); **A61B 2090/3782** (2016.02); **A61F 2002/30092** (2013.01); **A61F 2210/0014** (2013.01)

Citation (search report)

See references of WO 9417739A1

Designated contracting state (EPC)

AT BE CH DE DK FR GB IE IT LI NL SE

DOCDB simple family (publication)

**WO 9417739 A1 19940818**; AU 5956194 A 19940829; CA 2155187 A1 19940818; EP 0746244 A1 19961211; JP H08509390 A 19961008

DOCDB simple family (application)

**US 9312411 W 19931217**; AU 5956194 A 19931217; CA 2155187 A 19931217; EP 94905453 A 19931217; JP 51802194 A 19931217