

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

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Application
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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.

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