

## Title (en)

BIODEGRADABLE POLYMER/PROTEIN BASED COILS FOR INTRALUMENAL IMPLANTS

## Title (de)

AUF BIOLOGISCH ABBAUBAREM POLYMER/PROTEIN BASIERENDE SPIRALEN FÜR INTRALUMINALE IMPLANTATE

## Title (fr)

SPIRALES A BASE DE POLYMERES/PROTEINE BIODEGRADABLE, POUR IMPLANTS ENDOLUMINAUX

## Publication

**EP 1156759 A4 20021120 (EN)**

## Application

**EP 99951622 A 19990927**

## Priority

- US 9922420 W 19990927
- US 9901790 W 19990127

## Abstract (en)

[origin: WO0044306A1] An endovascular cellular manipulation and inflammatory response are elicited from implantation in a vascular compartment or any intraluminal location of a separable coil comprised at least in part of at least one biocompatible and absorbable polymer or protein and growth factors. Typically a catheter associated with the separable coil is used to dispose the coil into a selected body lumen. The biocompatible and absorbable polymer or protein is thrombogenic. The coil further is comprised at least in part of a growth factor or more particularly a vascular endothelial growth factor, a basic fibroblast growth factor or other growth factors. The biocompatible and absorbable polymer is in the illustrated embodiment at least one polymer selected from the group consisting of polyglycolic acid, poly SIMILAR glycolic acid/poly-L-lactic acid copolymers, polycaprolactone, polyhydroxybutyrate/hydroxyvalerate copolymers, poly-L-lactide. Polydioxanone, polycarbonates, and polyanhydrides. The biocompatible and absorbable protein is at least one protein selected from the group consisting of collagen, fibrinogen, fibronectin, vitronectin, laminin, and gelatin. In one embodiment the coil is composed of the biocompatible and absorbable polymer or protein with a radio-opaque material is disposed thereon. Alternatively, the coil is composed of a radio-opaque material, and the biocompatible and absorbable polymer or protein is disposed thereon. This apparatus may be positioned within intracranial aneurysms or any aneurysm in the body as well as within other body cavities.

## IPC 1-7

**A61F 2/06**; **A61M 5/00**; **A61M 5/24**; **A61L 31/04**; **A61L 31/06**; **A61L 31/08**; **A61L 31/10**; **A61L 31/14**; **A61L 31/16**; **A61B 17/12**

## IPC 8 full level

**A61B 17/12** (2006.01); **A61F 2/04** (2006.01); **A61F 2/06** (2006.01); **A61F 2/82** (2006.01); **A61K 38/27** (2006.01); **A61L 27/00** (2006.01); **A61L 29/00** (2006.01); **A61P 9/00** (2006.01); **A61P 9/14** (2006.01); **A61F 2/00** (2006.01); **A61F 2/02** (2006.01)

## CPC (source: EP)

**A61B 17/12022** (2013.01); **A61B 17/1215** (2013.01); **A61F 2/04** (2013.01); **A61P 9/00** (2017.12); **A61P 9/08** (2017.12); **A61P 9/10** (2017.12); **A61P 9/14** (2017.12); **A61P 29/00** (2017.12); **A61P 43/00** (2017.12); **A61F 2002/30062** (2013.01); **A61F 2002/3008** (2013.01); **A61F 2210/0004** (2013.01); **A61F 2250/0098** (2013.01)

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DE102011007134A1; US9655999B2; US10034966B2

## Designated contracting state (EPC)

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

## DOCDB simple family (publication)

**WO 0044306 A1 20000803**; AU 6402699 A 20000818; CA 2323151 A1 20000803; CA 2323151 C 20070410; EP 1156759 A1 20011128; EP 1156759 A4 20021120; JP 2003524456 A 20030819; JP 2004223268 A 20040812; JP 2006021052 A 20060126; JP 4751661 B2 20110817

## DOCDB simple family (application)

**US 9922420 W 19990927**; AU 6402699 A 19990927; CA 2323151 A 19990927; EP 99951622 A 19990927; JP 2000595611 A 19990927; JP 2004051278 A 20040226; JP 2005225833 A 20050803