Title (en)

ABSORBABLE INTRAVASCULAR DEVICES THAT PROVIDE A DECREASE IN RADIAL RIGIDITY OF THE VESSEL OVER TIME

Title (de)

ABSORBIERBARE INTRAVASKULÄRE VORRICHTUNGEN ZUR VERRINGERUNG DER RADIALEN STEIFIGKEIT DES GEFÄSSES IM LAUFE DER DER ZEIT

Title (fr)

DISPOSITIFS INTRAVASCULAIRES RÉSORBABLES QUI FOURNISSENT UNE DIMINUTION DE LA RIGIDITÉ RADIALE DU VAISSEAU AU FIL DU TEMPS

Publication

EP 4041141 A4 20230927 (EN)

Application

EP 20874441 A 20200820

Priority

- US 201962914260 P 20191011
- US 2020047238 W 20200820

Abstract (en)

[origin: WO2021071593A1] A vascular stent may be used to maintain or enhance patency of a blood vessel. By using multiple, separate stent elements that are balloon expandable, the multi-element stent may be stronger than a traditional self-expanding stent but may also be more flexible, due to its multiple-element configuration, than a traditional balloon-expandable stent. The stent elements are formed from a bioresorbable polymer material. The radial rigidity of the stent is configured to decrease after implantation in a vessel as the polymer is absorbed. The thickness of the stent, cell shape, polymer material, and/or treatment of the polymer material may be configured to provide a high initial radial rigidity to the vessel upon implantation and a decrease in the radial rigidity of the vessel over time.

IPC 8 full level

A61F 2/915 (2013.01); **A61F 2/82** (2013.01); **A61F 2/90** (2013.01); **A61F 2/91** (2013.01); **A61F 2/958** (2013.01)

CPC (source: EP)

A61F 2/91 (2013.01); **A61F 2/915** (2013.01); **A61F 2/958** (2013.01); **A61L 31/06** (2013.01); **A61L 31/148** (2013.01); **A61L 31/16** (2013.01); A61F 2002/826 (2013.01); A61F 2210/0004 (2013.01); A61F 2250/0012 (2013.01); A61F 2250/0018 (2013.01); A61L 2300/406 (2013.01); A61L 2300/42 (2013.01)

C-Set (source: EP)

1. **A61L 31/06** + **C08L 67/04**
2. **A61L 31/06** + **C08L 75/04**
3. **A61L 31/06** + **C08L 83/04**
4. **A61L 31/06** + **C08L 71/02**

Citation (search report)

- [XY] US 2013085564 A1 20130404 - PAPP JOHN E [US], et al
- [X] EP 2882380 B1 20170802 - ABBOTT CARDIOVASCULAR SYSTEMS INC [US]
- [Y] WO 2016141215 A1 20160909 - EFEMORAL MEDICAL LLC [US], et al
- See also references of WO 2021071593A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 2020047238 W 20200820; CN 202080038979 A 20200820; EP 20874441 A 20200820; JP 2021564213 A 20200820