

Title (en)
BIODEGRADABLE METALLIC MICRO-STRUCTURES

Title (de)
BIOABBAUBARE METALLISCHE MIKROSTRUKTUREN

Title (fr)
MICROSTRUCTURES MÉTALLIQUES BIODÉGRADABLES

Publication
EP 3810217 A4 20220413 (EN)

Application
EP 19821900 A 20190621

Priority
• US 201816015461 A 20180622
• US 201862688712 P 20180622
• IB 2019055272 W 20190621

Abstract (en)
[origin: WO2019244128A1] Bioresorbable medical devices, such as stents, scaffolds and other medical devices implantable in human and animal bodies, in which galvanic couples are formed. The devices include bioresorbable amalgamates, wires, laminates, layered structures or combinations thereof. Also, methods of manufacturing the devices, including laminating, folding, braiding, weaving, crocheting or cold spraying of materials with different galvanic potentials. Also, machining of amalgamated materials using electrical discharge machining..

IPC 8 full level
A61L 31/02 (2006.01); **A61F 2/90** (2013.01); **A61L 27/58** (2006.01); **A61L 31/12** (2006.01); **A61L 31/14** (2006.01); **B22F 1/00** (2022.01); **B22F 3/24** (2006.01); **B22F 5/10** (2006.01); **C23C 24/04** (2006.01)

CPC (source: EP)
A61F 2/90 (2013.01); **A61F 2/91** (2013.01); **A61L 31/022** (2013.01); **A61L 31/14** (2013.01); **B22F 3/115** (2013.01); **B22F 5/106** (2013.01); **C23C 24/04** (2013.01); **A61F 2210/0004** (2013.01); **A61F 2240/001** (2013.01); **A61F 2250/003** (2013.01); **A61F 2250/0043** (2013.01); **B22F 2998/10** (2013.01)

C-Set (source: EP)
1. **B22F 2998/10 + B22F 3/115 + B22F 3/162 + B22F 2003/248**
2. **B22F 2998/10 + C23C 24/04 + B22F 3/162 + B22F 2003/248**

Citation (search report)
• [XAI] US 2010125325 A1 20100520 - ALLEN JEFFREY [US], et al
• [A] WO 2018089697 A1 20180517 - MEDTRONIC VASCULAR INC [US]
• [A] US 2016066918 A1 20160310 - CHEN HANCUN [US]
• [A] WO 2010132244 A2 20101118 - BOSTON SCIENT SCIMED INC [US], et al
• [A] WO 03063733 A1 20030807 - RADI MEDICAL SYSTEM AB [SE], et al
• See references of WO 2019244128A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2019244128 A1 20191226; BR 112020026476 A2 20210323; CA 3103644 A1 20191226; EP 3810217 A1 20210428; EP 3810217 A4 20220413; MX 2020014306 A 20210325; MX 2023013244 A 20231117

DOCDB simple family (application)
IB 2019055272 W 20190621; BR 112020026476 A 20190621; CA 3103644 A 20190621; EP 19821900 A 20190621; MX 2020014306 A 20190621; MX 2023013244 A 20201218