

Title (en)
LITHOPLASTY BALLOON SYSTEMS, DEVICES AND METHODS WITH ELECTRODE PAIRS HAVING MULTIPLE SPARK GAPS

Title (de)
LITHOPLASTIEBALLONSYSTEME, VORRICHTUNGEN UND VERFAHREN MIT ELEKTRODENPAAREN MIT MEHREREN FUNKENSTRECKEN

Title (fr)
SYSTÈMES DE BALLONNET DE LITHOPLASTIE, DISPOSITIFS ET PROCÉDÉS AVEC PAIRES D'ÉLECTRODES COMPORTANT DE MULTIPLES ÉCLATEURS

Publication
EP 4380475 A1 20240612 (EN)

Application
EP 22854005 A 20220325

Priority

- US 202163229737 P 20210805
- US 202117449883 A 20211004
- US 202117454574 A 20211111
- US 202117454587 A 20211111
- US 202117454667 A 20211112
- US 202117454668 A 20211112
- US 202117454718 A 20211112
- US 202117454721 A 20211112
- US 202117644173 A 20211214
- US 2022071341 W 20220325

Abstract (en)
[origin: EP4129213A1] Various embodiments of the systems, methods and devices are provided for breaking up calcified lesions in an anatomical conduit. More specifically, an electrical arc is generated between two spaced-apart electrodes disposed within a fluid-filled balloon, creating a subsonic pressure wave. In some embodiments, the electrodes comprise a plurality of points that allow the electrical arc to form at any one of the plurality of points to, among other things, extend the electrode life.

IPC 8 full level
A61B 17/22 (2006.01); **A61M 25/10** (2013.01); **A61M 29/02** (2006.01); **H01T 13/40** (2006.01); **H01T 13/54** (2006.01); **H01T 14/00** (2006.01); **H01T 19/04** (2006.01)

CPC (source: EP)
A61B 17/2202 (2013.01); **A61B 17/22022** (2013.01); **A61B 2017/00084** (2013.01); **A61B 2017/00309** (2013.01); **A61B 2017/00703** (2013.01); **A61B 2017/22025** (2013.01); **A61B 2017/22051** (2013.01); **A61B 2017/22062** (2013.01); **A61M 25/104** (2013.01)

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4129213 A1 20230208; AU 2022202420 A1 20230223; AU 2022203183 A1 20230223; AU 2022203185 A1 20230223; AU 2022203188 A1 20230223; AU 2022203189 A1 20230223; AU 2022203191 A1 20230223; AU 2022203192 A1 20230223; AU 2022203193 A1 20230223; CA 3155351 A1 20230205; DE 112022003823 T5 20240523; EP 4134016 A1 20230215; EP 4134017 A1 20230215; EP 4134018 A1 20230215; EP 4134019 A1 20230215; EP 4134020 A1 20230215; EP 4134021 A1 20230215; EP 4134022 A1 20230215; EP 4380475 A1 20240612

DOCDB simple family (application)
EP 22167569 A 20220411; AU 2022202420 A 20220325; AU 2022203183 A 20220512; AU 2022203185 A 20220512; AU 2022203188 A 20220512; AU 2022203189 A 20220512; AU 2022203191 A 20220512; AU 2022203192 A 20220512; AU 2022203193 A 20220512; CA 3155351 A 20220325; DE 112022003823 T 20220325; EP 22167795 A 20220411; EP 22167806 A 20220411; EP 22167815 A 20220411; EP 22168972 A 20220411; EP 22168984 A 20220411; EP 22168990 A 20220411; EP 22169681 A 20220411; EP 22854005 A 20220325