

Title (en)
MULTI-FIBER FLEXIBLE SURGICAL PROBE

Title (de)
FLEXIBLE CHIRURGISCHE MEHRFASERSONDE

Title (fr)
SONDE CHIRURGICALE FLEXIBLE MULTIFIBRES

Publication
EP 2509526 A4 20131030 (EN)

Application
EP 10846295 A 20101215

Priority

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- US 2010060538 W 20101215

Abstract (en)
[origin: WO2011102870A1] A probe having a flexible, small diameter fiber optic sheathed in a small diameter flexible tube comprising the distal tip of the probe. The small diameters of the fiber and tube allow the fiber to be bent in a tight radius comprising the major portion of the length of the exposed portion of the fiber, with low tube bending forces during insertion, providing a compact design which reduces or eliminates the need for a straight distal portion of flexible tube extending from the cannula. The small diameter tube also allows a greater wall thickness outer cannula to be used, thereby increasing instrument rigidity. One embodiment encompasses a larger flexible tube with corresponding larger bend radius, to encase a plurality of fiber optics, providing separately optimized laser and illumination delivery paths. Anti-friction coating material may be used to further reduce insertion forces.

IPC 8 full level
A61F 9/008 (2006.01)

CPC (source: EP KR)
A61B 90/36 (2016.02 - KR); **A61F 9/00821** (2013.01 - EP KR); **A61F 2009/0087** (2013.01 - EP KR)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2011102870A1

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DOCDB simple family (publication)
WO 2011102870 A1 20110825; AU 2010346509 A1 20120809; BR 112012020778 A2 20160503; CA 2787024 A1 20110825; CN 102762162 A 20121031; EP 2509526 A1 20121017; EP 2509526 A4 20131030; JP 2013519492 A 20130530; KR 20130008556 A 20130122; MX 2012009035 A 20120907; RU 2012139445 A 20140327

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