

Title (en)
SIDE VIEWING OPTICAL FIBER ENDOSCOPE

Title (de)
FASEROPTISCHES ENDOSKOP MIT SEITLICHER SICHT

Title (fr)
LATÉROSCOPE À FIBRE OPTIQUE

Publication
EP 2120719 A4 20110706 (EN)

Application
EP 07758269 A 20070309

Priority
US 2007063698 W 20070309

Abstract (en)
[origin: WO2008111970A1] An optical fiber conveys light from a source at a proximal end, to a distal end, where a piezoelectric material tube applies a force that causes the distal end of the optical fiber to scan in a desired pattern. Light from the distal end of the optical fiber passes through a lens system and is at least partially reflected by a reflective surface toward a side of the scope, to illuminate tissue within a patient's body. Light received from the internal tissue is reflected back either to collection optical fibers, which convey the light to proximally disposed optical detectors, or directly toward distal optical detectors. The optical detectors produce electrical signals indicative of an intensity of the light that can be used for producing an image of the internal tissue. The light received from the tissue can be either scattered, polarized, fluorescent, or filtered, depending on the illumination light.

IPC 8 full level
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Citation (search report)
• [XY] US 2005182295 A1 20050818 - SOPER TIMOTHY D [US], et al
• [Y] US 4846154 A 19890711 - MACANALLY RICHARD B [US], et al
• [Y] WO 03019661 A1 20030306 - UNIV WASHINGTON [US], et al
• [A] US 2006195014 A1 20060831 - SEIBEL ERIC J [US], et al
• [A] WO 2006041452 A1 20060420 - UNIV WASHINGTON [US], et al
• See references of WO 2008111970A1

Designated contracting state (EPC)
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