

Title (en)

ADDING IMAGING CAPABILITY TO DISTAL TIPS OF MEDICAL TOOLS, CATHETERS, AND CONDUITS

Title (de)

HINZUFÜGEN VON BILDGEBUNGSFÄHIGKEIT ZU DISTALEN SPITZEN VON MEDIZINISCHEN INSTRUMENTEN, KATHETERN UND LEITUNGEN

Title (fr)

AJOUT D'UNE CAPACITÉ D'IMAGERIE À DES EXTRÉMITÉS DISTALES D'OUTILS MÉDICAUX, DE CATHÉTERS, ET DE CONDUITS

Publication

EP 2224841 A4 20120418 (EN)

Application

EP 07854804 A 20071127

Priority

US 2007085667 W 20071127

Abstract (en)

[origin: WO2009070161A1] One or more scan illuminators and a plurality of light receivers are provided on the distal end of a tool or other component, so that a plurality of images of a site can be provided in response to output signals from the plurality of light receivers. The output signals from the plurality of light receivers are combined to produce an overall image of the site or a plurality of different images from disparate positions. The plurality of images can be viewed separately to produce a stereo or perspective view, or can be produced using different wavebands of light to provide enhanced information about the site that facilitates use of one or more tools or components at the site. The scan illuminator(s) and plurality of light receivers can be configured to be added to an existing tool or component.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [XY] WO 2005000110 A2 20050106 - MICROVISION INC [US], et al
- [X] US 2007244365 A1 20071018 - WIKLOF CHRISTOPHER A [US]
- [X] US 6294775 B1 20010925 - SEIBEL ERIC J [US], et al
- [X] US 2007015969 A1 20070118 - FELDMAN MARC D [US], et al
- [Y] US 2007213618 A1 20070913 - LI XINGDE [US], et al
- [Y] US 2004122289 A1 20040624 - MIZUNO ROGERIO JUN [JP]
- See references of WO 2009070161A1

Cited by

US11047671B1; US11530910B2

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