

Title (en)

INTRAVASCULAR ULTRASOUND IMAGE PROCESSING OF BLOOD-FILLED OR BLOOD-DISPLACED LUMENS

Title (de)

INTRAVASKULÄRE ULTRASCHALLBILDVERARBEITUNG VON BLUTGEFÜLLTEN ODER BLUTVERDRÄNGTEN LUMEN

Title (fr)

TRAITEMENT D'IMAGE ULTRASONORE INTRAVASCULAIRE DE LUMIÈRES REMPLIES DE SANG OU DÉPLACÉES DANS LE SANG

Publication

EP 3681402 A1 20200722 (EN)

Application

EP 17772260 A 20170914

Priority

US 2017051562 W 20170914

Abstract (en)

[origin: WO2019055016A1] Techniques for intravascular ultrasound image processing of blood-filled or blood-displaced lumens are disclosed. A catheter assembly may include an intravascular imaging device with an imaging element to image a vasculature and generate imaging data. An imaging engine, including a programmable processor, may communicate with the intravascular imaging device. The imaging engine may determine a lumen state of the vasculature, the determined lumen state indicative of whether the vasculature is blood-filled or blood-cleared. The imaging engine may perform signal processing to enhance the generated image data. Finally, the imaging engine may generate an image based on the enhanced imaging data and the determined lumen state.

IPC 8 full level

A61B 8/08 (2006.01); **A61B 5/00** (2006.01); **A61B 5/02** (2006.01); **A61B 8/12** (2006.01)

CPC (source: EP)

A61B 5/0066 (2013.01); **A61B 5/0084** (2013.01); **A61B 5/02007** (2013.01); **A61B 5/7225** (2013.01); **A61B 8/085** (2013.01); **A61B 8/0891** (2013.01); **A61B 8/12** (2013.01); **A61B 8/5269** (2013.01)

Citation (search report)

See references of WO 2019055016A1

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

DOCDB simple family (publication)

WO 2019055016 A1 20190321; CN 111093517 A 20200501; EP 3681402 A1 20200722; JP 2021501614 A 20210121

DOCDB simple family (application)

US 2017051562 W 20170914; CN 201780094890 A 20170914; EP 17772260 A 20170914; JP 2020515097 A 20170914