

Title (en)

METHODS AND SYSTEMS FOR PLANNING, PERFORMING AND MONITORING THERMAL ABLATION

Title (de)

VERFAHREN UND SYSTEME ZUR PLANUNG, DURCHFÜHRUNG UND ÜBERWACHUNG EINER WÄRMEABLEITUNG

Title (fr)

PROCÉDÉS ET SYSTÈMES DE PLANIFICATION, D'EXÉCUTION ET DE CONTRÔLE D'ABLATION THERMIQUE

Publication

**EP 2068736 A1 20090617 (EN)**

Application

**EP 07873956 A 20070806**

Priority

- US 2007075287 W 20070806
- US 49934206 A 20060804
- US 49941806 A 20060804
- US 49934406 A 20060804
- US 49934306 A 20060804

Abstract (en)

[origin: WO2008112005A1] A thermal ablation system is operable to perform thermal ablation using an x-ray system to measure temperature changes throughout a volume of interest in a patient. Image data sets captured by the x-ray system during a thermal ablation procedure provide temperature change information for the volume being subjected to the thermal ablation. Intermediate image data sets captured during the thermal ablation procedure may be fed into a system controller, which may modify or update a thermal ablation plan to achieve volume coagulation necrosis targets. The thermal ablation may be delivered by a variety of ablation modes including radiofrequency ablation, microwave therapy, high intensity focused ultrasound, laser ablation, and other interstitial heat delivery methods. Methods of performing thermal ablation using x-ray system temperature measurements as a feedback source are also provided.

IPC 8 full level

**A61B 18/04** (2006.01)

CPC (source: EP)

**A61B 6/482** (2013.01); **A61B 6/5247** (2013.01); **A61B 18/14** (2013.01); **A61B 6/027** (2013.01); **A61B 6/03** (2013.01); **A61B 6/4417** (2013.01); **A61B 6/541** (2013.01); **A61B 8/06** (2013.01); **A61B 8/13** (2013.01); **A61B 8/543** (2013.01); **A61B 18/02** (2013.01); **A61B 18/1206** (2013.01); **A61B 18/18** (2013.01); **A61B 18/20** (2013.01); **A61B 2017/00084** (2013.01); **A61B 2018/00642** (2013.01); **A61B 2018/00702** (2013.01); **A61B 2018/00791** (2013.01); **A61B 2090/376** (2016.02)

Cited by

CN106030266A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**WO 2008112005 A1 20080918**; EP 2068736 A1 20090617; EP 2068736 A4 20091230

DOCDB simple family (application)

**US 2007075287 W 20070806**; EP 07873956 A 20070806