

Title (en)
NANOELECTROABLATION CONTROL AND VACCINATION

Title (de)
NANOELEKTROABLATIONSSTEUERUNG UND IMPFUNG

Title (fr)
RÉGULATION DE LA NANO-ÉLECTRO-ABLATION ET VACCINATION

Publication
EP 3226794 A4 20180815 (EN)

Application
EP 15865400 A 20151130

Priority
• US 201462086025 P 20141201
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Abstract (en)
[origin: EP3708106A1] Techniques for treating a tumor and vaccinating against cancer are described. The techniques include treating the tumor by positioning electrodes over an interface between the tumor and non-tumor tissue and applying sub-microsecond pulsed electric fields. The positioning is facilitated by an imaginary contour line of a threshold value of the electric field. In an example, the imaginary contour line is overlaid over images that include the tumor such that the electrodes are properly positioned over the tumor. The techniques also include vaccinating against cancer by passing sub-microsecond pulsed electric fields through tumor cells of a subject sufficient to cause the tumor cells to express calreticulin on surface membranes. The tumor cells are extracted and introduced with the expressed calreticulin into the subject or another subject, thereby providing a vaccination.

IPC 8 full level
A61K 39/00 (2006.01); **A61P 35/00** (2006.01); **C12N 5/09** (2010.01); **A61B 18/12** (2006.01); **A61N 1/40** (2006.01)

CPC (source: EP US)
A61B 1/04 (2013.01 - US); **A61B 18/1477** (2013.01 - EP US); **A61B 18/1492** (2013.01 - US); **A61B 34/20** (2016.02 - EP); **A61B 90/37** (2016.02 - EP); **A61K 39/0011** (2013.01 - EP); **A61N 1/326** (2013.01 - US); **A61N 1/40** (2013.01 - EP); **C12N 5/0693** (2013.01 - EP); **A61B 6/03** (2013.01 - EP US); **A61B 6/12** (2013.01 - EP); **A61B 2018/00273** (2013.01 - US); **A61B 2018/00529** (2013.01 - EP US); **A61B 2018/00577** (2013.01 - EP US); **A61B 2018/00613** (2013.01 - EP); **A61B 2018/00642** (2013.01 - US); **A61B 2018/00892** (2013.01 - US); **A61B 2018/00904** (2013.01 - EP US); **A61B 2018/00982** (2013.01 - US); **A61B 2034/101** (2016.02 - EP); **A61B 2034/107** (2016.02 - EP); **A61K 2039/5152** (2013.01 - EP); **A61M 2037/0007** (2013.01 - US); **C12N 2529/00** (2013.01 - EP)

Citation (search report)
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• See also references of WO 2016089781A1

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EP 3708106 A1 20200916; EP 3226794 A1 20171011; EP 3226794 A4 20180815

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