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System And Method Of Dual-Mode Eat/Us-Guided Electroporation

Tech ID: 34855 / UC Case 2022-971-0

BRIEF DESCRIPTION

A novel imaging technology that uses acoustic signals induced by pulsed electric fields for real-time, in situ monitoring of electroporation cancer ablation therapy.

FULL DESCRIPTION

SUGGESTED USES

- » Real-time guidance and monitoring of.
- » Greatly improves the accuracy of tumor targeting and largely mitigated damage to surrounding healthy tissue
- » Oncological treatments involving targeted drug delivery and tumor cell apoptosis induction.
- » Clinical imaging systems integrating electrotherapy for enhanced patient outcomes.
- » Research tools for studying electric field effects in biological tissues.

ADVANTAGES

- » Enables real-time, high-resolution monitoring of electric field distribution to precisely guide electroporation cancer ablation therapy.
- » Demonstrates quantifiable voltage-signal relationships across diverse tissue environments, with strong potential for clinical translation to improve electrotherapy safety and efficacy.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Published Application	20250311929	10/09/2025	2022-971

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OTHER INFORMATION

CATEGORIZED AS

- » **Imaging**
 - » Medical
- » **Medical**
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 - » Diagnostics
 - » Disease: Cancer
 - » Imaging
 - » Research Tools
- » **Sensors & Instrumentation**
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