

# VOLUMETRIC INDUCTION PHASE SHIFT DETECTION OF EDEMA AND ISCHEMIA

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## ABSTRACT

A method and apparatus of determining the condition of a bulk tissue sample, by: positioning a bulk tissue sample between a pair of induction coils (or antennae); passing a spectrum of alternating current (or voltage) through a first of the induction coils (or antennae); measuring spectrum of alternating current (or voltage) produced in the second of the induction coils (or antennae); and comparing the phase shift between the spectrum of alternating currents (or voltages) in the first and second induction coils (or antennae), thereby determining the condition of the bulk tissue sample.

## PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	8,633,033	01/21/2014	2005-097
United States Of America	Issued Patent	8,101,421	01/24/2012	2005-097
United States Of America	Issued Patent	7,910,374	03/22/2011	2005-097
United States Of America	Issued Patent	7,638,341	12/29/2009	2005-097

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## OTHER INFORMATION

### CATEGORIZED AS

- » Medical
- » Devices
- » Therapeutics

### RELATED CASES

2005-097-0