

Available
Technologies

Methods and Apparatus for Determining Optical Properties of Biological Tissues

Applications:

- Clinical diagnostics
- Clinical therapeutics

Advantages:

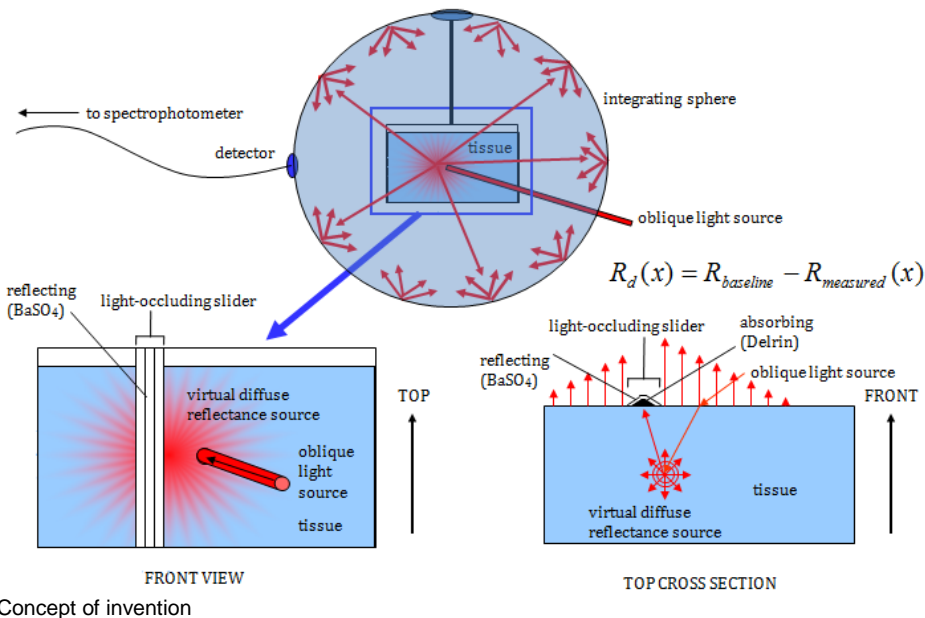
- Automated method for determining optical properties of biological tissue
- Accurate
- Economical

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Summary:

Technology Description

A method, apparatus, and software for determining the optical properties of tissue by collecting reflectance data from biological tissue. A custom-designed software package controls the apparatus, receives and manipulates raw reflectance data, and converts this data to the optical properties of the sample.

Technology Application

For use in any biomedical research application where structural assessment of tissue is necessary. Examples include tissue engineering and bioartificial constructs whereby functional and structural testing are integrated into the development process, fields that involve any sort of surgical tissue insertion would benefit (e.g., transplantable organs and porcine heart valves), and any biomedical research or clinical technology that uses a laser to interact with biological tissue.

Stage of Development: Prototype

Patent Status: Patent application in progress

Licensing Status: Available for licensing in specific fields of use