Docket #: S05-069

A new optical coherence tomography set-up and data processing to achieve better resolution

An apparatus is provided for measuring a frequency-domain optical coherence tomography power spectrum from a sample. The apparatus includes a broadband light source, an optical spectrum analyzer, and a partially reflective element optically coupled to the light source, to the optical spectrum analyzer, and to the sample. A first portion of light from the light source is reflected by the partially reflective element and propagates to the optical spectrum analyzer. A second portion of light from the light source propagating through the partially reflective element, impinging the sample, reflecting from the sample, and propagating to the optical spectrum analyzer.

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Applications

- To achieve better image acquisition in frequency domain optical
- coherence tomography systems by using minimum phase functions.

Patents

- Published Application: 20070050162
- Published Application: WO2006102058
- Published Application: 20090207414
- Published Application: 20110317167
- Published Application: 20120281899

- Issued: 7,493,227 (USA)
- Issued: 8,032,322 (USA)
- Issued: 8,219,350 (USA)
- Issued: 8,874,403 (USA)

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