

**Docket #:** S04-159

# Retrieval of the Impulse Response

An apparatus characterizes at least one fiber Bragg grating. The apparatus includes a laser pulse source, an optical spectrum analyzer, and multiple optical paths. A first optical path includes a pulse stretcher and an attenuator. A second optical path optically coupled to the first optical path includes a mirror. A third optical path optically coupled to the first optical path includes a first fiber Bragg grating. A fourth optical path is optically coupled to the second optical path, the third optical path, and the optical spectrum analyzer. A fifth optical path optically coupled to the laser pulse source and the optical spectrum analyzer includes a delay line.

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## Patents

- Published Application: [WO2005116706](#)
- Published Application: [20070025432](#)
- Published Application: [20080204726](#)
- Published Application: [20090207401](#)
- Issued: [7,385,683 \(USA\)](#)
- Issued: [7,746,480 \(USA\)](#)

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