

Title (en)

A BRILLOUIN OPTOELECTRONIC MEASUREMENT METHOD

Title (de)

VERFAHREN FÜR OPTOELEKTRONISCHE BRILLOUIN-MESSUNGEN

Title (fr)

PROCÉDÉ DE MESURE OPTOÉLECTRONIQUE DE BRILLOUIN

Publication

EP 2912412 A1 20150902 (EN)

Application

EP 12780485 A 20121029

Priority

EP 2012071389 W 20121029

Abstract (en)

[origin: WO2014067548A1] A Brillouin optoelectronic measurement method comprising the steps of, providing a pump signal in a first end of an optical fiber, and providing a probe signal in the opposite end of said optical fiber, so that both the pump and probe signals can interact in the optical fibre to generate simulated Brillouin backscattering, using the stimulated Brillouin backscattering to perform a measurement, characterised in that the pump signal comprising at least a first and second monochromatic wave, such that the first monochromatic wave can generate a Brillouin gain spectrum and the second monochromatic wave can generate a first Brillouin loss spectrum, wherein the frequency of the first and second monochromatic waves are different, and wherein the frequencies of the first and second monochromatic waves are such that a frequency range of the first Brillouin loss spectrum generated by the second monochromatic wave only partly overlaps a frequency range of a Brillouin gain spectrum generated by the first monochromatic wave.

IPC 8 full level

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See references of WO 2014067548A1

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