

Title (en)

GENERATOR FOR GENERATING AN ANTI-KERR-EFFECT MODULATED LIGHT SIGNAL, INTERFEROMETRY MEASURING DEVICE COMPRISING SUCH A GENERATOR, AND METHOD FOR MODULATING A LIGHT SIGNAL

Title (de)

GENERATOR ZUR ERZEUGUNG EINES ANTI-KERR-EFFEKT-MODULIERTEN LICHTSIGNALS, INTERFEROMETRISCHE MESSVORRICHTUNG MIT EINEM SOLCHEN GENERATOR UND VERFAHREN ZUR MODULATION EINES LICHTSIGNALS

Title (fr)

GÉNÉRATEUR D'UN SIGNAL LUMINEUX MODULÉ ANTI-EFFET KERR, DISPOSITIF DE MESURE INTERFÉROMÉTRIQUE COMPORTANT UN TEL GÉNÉRATEUR ET MÉTHODE DE MODULATION D'UN SIGNAL LUMINEUX

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Application

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Abstract (en)

[origin: WO2022184855A1] The invention relates to a generator for generating an anti-Kerr modulated light signal (Smod), comprising a primary light source (2) having four longitudinal modes or fewer and configured to generate a light signal and modulation means (4) configured to modulate the power of the light signal by way of a square-wave or rectangular-wave control signal (50) the duty cycle of which is less than or equal to 50%, and which are adapted such that the modulated light signal (Smod) is periodic and has: - at a first point of the signal (Smod), a first power value (PMes) equal to the product of its average power (<P>) and a gain of between 1.6 and 2.4, - at a second point of the signal (Smod), a second, non-zero power value (Pmin) different from the first power value (PMes). The invention also relates to a modulation method and to a measuring device.

IPC 8 full level

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