

Title (en)

METHOD TO SUPPRESS AMPLITUDE VARIATIONS OF TWO ALTERNATING, PERIODIC SIGNALS IN PHASE QUADRATURE WITH A RANDOM PHASE SEQUENCE, AND CIRCUIT ARRANGEMENT TO CARRY OUT THE METHOD

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Application

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Priority

DE 3843108 A 19881221

Abstract (en)

[origin: EP0374641A2] The invention relates to a method of suppressing amplitude variations of two electrical signals (uS1, uS2) in phase quadrature and a circuit arrangement for carrying out the method. According to the invention, the positive or negative amplitude variation of the signals (uS1, uS2) is monitored for undershooting of a lower or overshooting of an upper reference voltage (+/-US- or +/-US+) in such a way that in the event of undershooting or overshooting a device (20, 22) for changing a prescribed manipulated variable of an actuator (8, 10) is activated, and the signals (uS1, uS2) are respectively converted into rectangular signals (uRS1,uRS2), from which clock pulses (uC11 or uC12) are generated by means of a logic circuit (24 or 26) depending upon the phase sequence of the signals (uS1, uS2) at the positive or negative flanks of the rectangular signals (uRS1, uRS2), which vary the prescribed gain as a function of the result of the amplitude monitoring by a prescribed value (LSB). This yields a method of suppressing amplitude variations of two electrical alternating, periodic signals (uS1, uS2) in phase quadrature with a random phase sequence, and a circuit arrangement for carrying out the method that operates independently of frequency. <IMAGE>

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CPC (source: EP)

G05F 1/44 (2013.01); **G05F 1/452** (2013.01)

Citation (search report)

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