

Title (en)
MULTIBIT MODULATOR WITH DIGITAL ADJUSTABLE PULSE DURATION

Title (de)
MULTIBIT-MODULATOR MIT DIGITAL STELLBARER PULSDAUER

Title (fr)
MODULATEUR MULTIBIT À DURÉE D'IMPULSION RÉGLABLE NUMÉRIQUE

Publication
EP 2235835 A1 20101006 (DE)

Application
EP 09704656 A 20090121

Priority
• EP 2009050639 W 20090121
• DE 102008005671 A 20080121
• DE 102008041142 A 20080811

Abstract (en)
[origin: WO2009092722A1] Sigma delta pulse length modulator, comprising a signal input with a difference stage, the first input of which receives an analog input signal, said stage being configured to produce and output a difference signal corresponding to the difference of the signals at the inputs thereof, a forward loop filter for converting the difference signal to an analog filter output signal having a signal value, an analog-digital converter downstream of the forward loop filter, said converter being configured for the conversion of the analog filter output signal to a digital converter output signal containing two or more parallel bit component signals representing an overall digital value corresponding to the signal value assumed by the filter output signal, a digital pulse length modulator to which the converter output signal is sent at the input side thereof, the modulator being designed for converting the incoming converter output signal to a digital modulator output signal comprising an individual bit component signal and having a signal duration that represents the digital value corresponding to the signal value assumed by the analog filter output signal, and a reverse coupling loop that feeds an analog reverse coupling signal, which depends on the modulator output signal, to a second input of the difference stage.

IPC 8 full level
H03M 3/04 (2006.01); **H03F 3/217** (2006.01); **H03K 7/08** (2006.01)

CPC (source: EP)
H03F 3/217 (2013.01); **H03M 3/432** (2013.01); **H03F 2200/351** (2013.01)

Citation (search report)
See references of WO 2009092722A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008041142 A1 20090723; EP 2235835 A1 20101006; WO 2009092722 A1 20090730

DOCDB simple family (application)
DE 102008041142 A 20080811; EP 09704656 A 20090121; EP 2009050639 W 20090121