

Title (en)

MODULATION DEVICE, CONTROL DEVICE, OPTICAL SYSTEM, LITHOGRAPHY SYSTEM AND METHOD

Title (de)

MODULATIONSVORRICHTUNG, ANSTEUERVORRICHTUNG, OPTISCHES SYSTEM, LITHOGRAPHIEANLAGE UND VERFAHREN

Title (fr)

DISPOSITIF DE MODULATION, DISPOSITIF DE COMMANDE, SYSTÈME OPTIQUE, SYSTÈME DE LITHOGRAPHIE ET PROCÉDÉ

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Application

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Abstract (en)

[origin: WO2021018573A1] The invention relates to a modulation device (100) for generating a 1-bit wide modulation signal (PWM) according to an N-bit wide input signal (I), comprising a signal splitter (110) for generating an M-bit wide first sub-signal (X_h) having M higher-value bits of the input signal (I) and for generating an L-bit wide second sub-signal (X_l) having L lower-value bits of the input signal, wherein $L = N - M$, a first modulation unit (120) for generating a 1-bit wide pulse-density modulation signal (PDM) according to the second sub-signal (X_l), an adding unit (130) for generating an M-bit wide addition signal (X_s) according to the first sub-signal (X_h) and the pulse-density modulation signal (PDM), and comprising a second modulation unit (140) for generating the 1-bit wide modulation signal (PWM) according to the addition signal (X_s).

IPC 8 full level

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