

Title (en)

CIRCUIT ARRANGEMENT AND METHOD FOR STARTING A DISCHARGE LAMP

Title (de)

SCHALTUNGSANORDNUNG UND VERFAHREN ZUM ZÜNDEN EINER ENTLADUNGSLAMPE

Title (fr)

ARRANGEMENT DE CIRCUIT ET PROCÉDÉ POUR ALLUMER UNE LAMPE À DÉCHARGE

Publication

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Application

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Abstract (en)

[origin: WO2008037290A1] The present invention relates to a circuit arrangement for starting a discharge lamp (20) with a driving apparatus, at whose output a drive signal with a predeterminable frequency can be provided; an inverter (14), which is coupled to the output of the drive apparatus and at whose output a square-wave signal with a predeterminable duty factor can be provided; a load circuit (16), which is coupled to the output of the inverter (14) and has at least one connection for the discharge lamp (20); a first control loop (R_i) with a first reference variable, a first manipulated variable and a first controlled variable, wherein the first control loop (R_i) has a first time constant; a second control loop (R_a) with a second reference variable, an auxiliary manipulated variable and a second controlled variable, wherein the second control loop (R_a) has a second time constant; wherein the auxiliary manipulated variable of the second control loop (R_a) represents the first reference variable of the first control loop (R_i), and the first time constant is smaller than the second time constant at least by a factor of 10, and wherein the first manipulated variable represents the duty factor of the output signal of the inverter (14). The invention furthermore relates to a method for starting a discharge lamp (20) using such a circuit arrangement.

IPC 8 full level

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