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(54) **Title**: A METHOD OF DRIVING A GAS-DISCHARGE LAMP

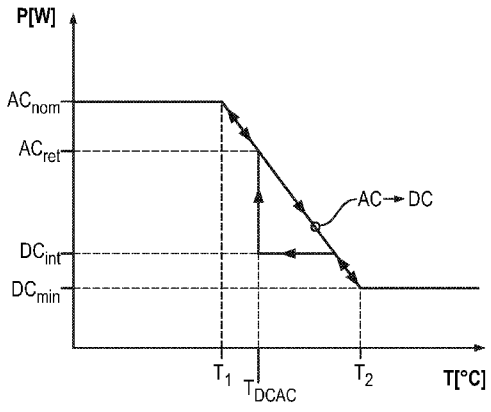

FIG. 2

(57) **Abstract**: The invention describes a method of driving a gas-discharge lamp (1) according to conditions in a specific region (R) of the lamp (1), which gas-discharge lamp (1) comprises a burner (2) in which a first electrode (4) and a second electrode (5) are arranged on either side of a discharge gap, which lamp (1) is realised such that the position (PCs) of a coldest spot during an AC mode of operation is in the vicinity of the first electrode (4), which method comprises the steps of initially driving the lamp (1) in the AC mode of operation; monitoring an environment variable of the lamp (1), which environment variable is indicative of conditions in a specific region (R) of the lamp (1); switching to a temporary DC mode of operation at a DC power value on the basis of the monitored environment variable, whereby the first electrode (4) is allocated as the anode; and driving the lamp (1) in the DC mode of operation until the monitored environment variable has returned to an intermediate environment variable threshold value (T_{DCAC}). The invention also describes a gas-discharge lamp and a driver for a gas-discharge lamp.

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	WO 2007/050321 A2 (GEN ELECTRIC [US]; COLLINS BYRON R [US]; KIEFER GEORGE E [US]) 3 May 2007 (2007-05-03) the whole document	1-15
X	US 2010/128232 A1 (KAGATA TEPPEI [JP] ET AL) 27 May 2010 (2010-05-27) the whole document	1,12
A	US 6 107 754 A (KIM JOONG SEONG [KR]) 22 August 2000 (2000-08-22) the whole document	1-15

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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