Title (en)

HIGH-PRESSURE DISCHARGE LAMP, AND METHOD OF OPERATING THE HIGH-PRESSURE DISCHARGE LAMP

Publication

EP 0245735 B1 19930210 (DE)

Application

EP 87106403 A 19870504

Priority

DE 3616192 A 19860514

Abstract (en)

[origin: US4779026A] To provide for pre-heating of low-power small metal halide high-pressure discharge lamps (1), at least one of the electrodes (16) is formed as a heater wire by introducing a thin tungsten wire, in V shape, into one end of the elongated bulb (2), and carrying out each one of the legs of the V, separately, and electrically insulated within an end press seal (4) by parallel foils (10, 11) externally of the bulb. Continuous heater current is caused to flow through the V-shaped wire electrode, thus heating the discharge vessel, to complete vaporization of the fill. To start the lamp, the two legs of the V, of the heater electrode, are connected in parallel and across the lamp operating voltage and then a high-voltage pulse is applied between the V-shaped heater electrodes, for example between one or both of the external conductors and the other electrode (9). Light output, upon starting, is substantially accelerated from a lamp of this type with respect to non-preheated lamps.

IPC 1-7

H01J 61/073; H01J 61/82

IPC 8 full level

H01J 61/073 (2006.01); **H01J 61/52** (2006.01); **H01J 61/82** (2006.01)

CPC (source: EP US)

H01J 61/073 (2013.01 - EP US); **H01J 61/827** (2013.01 - EP US)

Citation (examination)

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- EP 0175937 A2 19860402 - GTE PROD CORP [US]

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DOCDB simple family (publication)

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