

Title (en)
LOW-POWER HIGH-PRESSURE DISCHARGE LAMP

Publication
EP 0092221 A3 19840704 (DE)

Application
EP 83103744 A 19830418

Priority
DE 3214642 A 19820420

Abstract (en)
[origin: US4633136A] A high-pressure discharge lamp with metal halide additives and a power input of less than 100W comprises electrodes (4, 5) which have a shank portion (18) adjacent the seal and a second portion (19) which is formed as a coil and faces the discharge. Adjacent turns of the coil portion (19) do not contact one another. Shank (18) and coil (19) are preferably made of a single piece of wire. In the case of a double-ended arc tube (FIGS. 1 and 2) the axis of the coil portion (19) forms a substantially straight line with the shank portion (18). In the case of a single-ended arc tube (FIGS. 3 and 4) the axis of the coil portion includes an angle of 90 DEG with the axis of the shank portion. In order to protect the electrode, and especially the shank portion from corrosion, the shank (18) of the electrode (4, 5) is surrounded by a conical filament (17) of refractory metal e.g. tungsten whose turns are lying closely together. Due to the specific shape of the electrode (4, 5), quicker starting of the lamp is achieved, even when the lamp is still warm.

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H01J 61/073

IPC 8 full level
H01J 61/073 (2006.01)

CPC (source: EP US)
H01J 61/0732 (2013.01 - EP US)

Citation (search report)
• [AD] GB 1242173 A 19710811 - GEN ELECTRIC CO LTD [GB]
• [AD] FR 2445614 A1 19800725 - GEN ELECTRIC [US]
• [A] US 1680572 A 19280814 - RUNDLE ROY H
• [A] US 4101796 A 19780718 - KUUS GJJSBERT, et al

Cited by
EP0220673A3; CN105505830A

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EP 0092221 A2 19831026; EP 0092221 A3 19840704; EP 0092221 B1 19880720; US 4633136 A 19861230

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