

Title (en)  
GAS-FILLED DISCHARGE TUBE

Publication  
**EP 0407837 A3 19910807 (EN)**

Application  
**EP 90112498 A 19900629**

Priority  
JP 8224289 U 19890714

Abstract (en)  
[origin: EP0407837A2] A gas-filled discharge tube (2) of a compact construction for use as a series gap in the ignition system of an automotive spark-ignition engine and the like. The gas-filled discharge tube (7) comprises an insulating tube unit (7) having a tube (11) provided with openings (10,12) of a diameter smaller than the inside diameter thereof in the opposite ends thereof, a pair of electrode bases (9) closely attached to the opposite ends of the tube (11) so as to seal the openings, a pair of perforated discharge electrodes (8) attached respectively to the opposite inner surfaces of the electrode bases (9) to form a series gap, and an inert gas filling the tube. Since the diameter of the electrode bases (9) sealing the comparatively small openings (10,12) is comparatively small, the electrode bases (9) of a comparatively small diameter may be used. Thus, the capacitance between the electrode bases, hence the capacitance of the gas-filled discharge tube, is comparatively small, which enables the firing potential of the gas-filled discharge tube to be increased without increasing the capacitance of the same.

IPC 1-7  
**H01J 61/90**

IPC 8 full level  
**F02P 13/00** (2006.01); **H01J 17/18** (2012.01); **H01J 17/40** (2006.01); **H01T 1/00** (2006.01)

CPC (source: EP)  
**H01J 17/186** (2013.01); **H01J 17/40** (2013.01); **H01T 1/00** (2013.01)

Citation (search report)

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- [Y] EP 0048407 A1 19820331 - KRAFTWERK UNION AG [DE]
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Designated contracting state (EPC)  
DE GB

DOCDB simple family (publication)  
**EP 0407837 A2 19910116**; **EP 0407837 A3 19910807**; CA 2019909 A1 19910114; JP H0322388 U 19910307

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