

Title (en)

Gas discharge display device using a profiled cathode.

Title (de)

Gasentladungsanzeigevorrichtung mit profilierter Kathode.

Title (fr)

Dispositif d'affichage à décharge dans un gaz à cathode de profilée.

Publication

EP 0017981 A1 19801029 (DE)

Application

EP 80102047 A 19800416

Priority

DE 2916368 A 19790423

Abstract (en)

[origin: US4338539A] A gas discharge display device has a hermetically sealed gas filled envelope having an anode plate on one interior side and a profiled cathode on an opposite interior side. A control plate having a conductor matrix thereon formed of row conductor runs on one side and column conductor runs on an opposite side with perforations in the plate disposed at row-column intersections is disposed inside the envelope parallel to the anode and cathode and divides the interior of the envelope into a post-acceleration area near the anode and a discharge area near the cathode. The cathode profile is a plurality of spaced ribs disposed parallel to at least one set of conductor runs on the control plate. Upon cathode energization, gas electrons are ionized on that part of the cathode confined by neighboring ribs and opposite to air charged conductor on the control plate and subsequently drawn to the anode plate through the matrix holes to display a point-form image. By confining the gas discharge to the vicinity of a small number of conductor rows, unwanted background luminosity is substantially minimized on the display screen.

Abstract (de)

Bei einem Gasentladungspanel mit einem Gasentladungsraum und einem Nachbeschleunigungsraum, die durch eine gelochte, mit Zeilen- und Spaltenleitern (3, 3') versehene Steuerplatte (4) voneinander getrennt sind, wird vorgeschlagen, die Flächenkathode (n) (5) insbesondere durch rippenartige Erhebungen (2) zu profilieren.

IPC 1-7

H01J 63/06

IPC 8 full level

G09F 9/313 (2006.01); **H01J 17/49** (2012.01)

CPC (source: EP US)

H01J 17/498 (2013.01 - EP US)

Citation (search report)

- FR 2265172 A1 19751017 - SIEMENS AG [DE]
- NL 7503147 A 19750922 - SIEMENS AG
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Cited by

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Designated contracting state (EPC)

AT CH FR GB IT LI NL SE

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EP 0017981 A1 19801029; DE 2916368 A1 19801030; DE 2916368 C2 19821021; JP S55143756 A 19801110; US 4338539 A 19820706

DOCDB simple family (application)

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