

Title (en)
Gaseous discharge display device.

Title (de)
Gasentladungs-Anzeigevorrichtung.

Title (fr)
Dispositif d'affichage à décharge dans un gaz.

Publication
EP 0000263 A1 19790110 (EN)

Application
EP 78300064 A 19780621

Priority
US 81174577 A 19770630

Abstract (en)
[origin: US4207488A] A high resolution gaseous discharge display and/or memory device comprises a panel array of bistable charge storage areas designated gaseous discharge cells or sites, each cell having an associated pair of coordinate orthogonal conductors defining the cell walls which, when appropriately energized, produce a confined gaseous discharge in the selected sites. The conductors are insulated from direct contact with the gas by a dielectric insulator, the dielectric insulator being composed of a layer of refractory material having high secondary emission characteristics such as a Group IIA oxide doped with lithium a Group IA element, to prevent degradation of the dielectric during operation, to increase the static margin of the panel and improve the stability of the maximum and minimum sustain voltages, thereby providing stable operating voltages and extending the life of the gaseous discharge panel. Other embodiments of the dielectric insulator utilize additional small concentrations of elements of Groups VIII or VIB with the above combination.

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H01J 65/04

IPC 8 full level
H01J 11/12 (2012.01); **H01J 11/40** (2012.01)

CPC (source: EP US)
H01J 11/12 (2013.01 - EP US); **H01J 11/40** (2013.01 - EP US)

Citation (search report)
• US 4028578 A 19770607 - BYRUM JR BERNARD W, et al
• US 3852607 A 19741203 - HOEHN H, et al
• [A] FR 2332609 A1 19770617 - FUJITSU LTD [JP]
• [A] FR 2333341 A1 19770624 - IBM [US]
• [A] US 3846670 A 19741105 - SCHAUFLE R
• [A] US 3846171 A 19741105 - ERNSTHAUSEN ROGER E [US], et al
• [A] FR 1437859 A 19660506 - FERNSEH GMBH SOC
• [A] US 3584251 A 19710608 - BANKS PETER BALDWIN, et al
• [A] US 3061752 A 19621030 - BALDWIN BANKS PETER

Cited by
US4717814A; EP0064149A3; US4475060A

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DE FR GB

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EP 0000263 A1 19790110; EP 0000263 B1 19810318; AR 220535 A1 19801114; BR 7803754 A 19790320; CA 1111481 A 19811027; DE 2860539 D1 19810416; IT 1109196 B 19851216; IT 7823827 A0 19780526; JP S5413255 A 19790131; JP S5751218 B2 19821030; US 4207488 A 19800610

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EP 78300064 A 19780621; AR 27254278 A 19780609; BR 7803754 A 19780612; CA 301678 A 19780421; DE 2860539 T 19780621; IT 2382778 A 19780526; JP 6179678 A 19780525; US 81174577 A 19770630