

Title (en)
FLAT GAS DISCHARGE DISPLAY DEVICE.

Title (de)
FLACHES GASENTLADUNGSANZEIGEGERÄT.

Title (fr)
DISPOSITIF PLAT D'AFFICHAGE PAR DECHARGE DANS UN GAZ.

Publication
EP 0012921 A1 19800709 (DE)

Application
EP 79105079 A 19791210

Priority
DE 2855090 A 19781220

Abstract (en)
[origin: US4352042A] A luminescent screen for flat image display devices, having improved light efficiency comprises a perforated plate (5) positioned on the inside of a luminescent screen glass (1), with the plate holes (6) extending above the individual spaced-apart luminescent areas or phosphor dots and the hole walls (6a) being provided with a metallization layer (8) and/or an extension of the luminescent layer (7) on the glass screen (1). In preferred embodiments, the plate holes are etched so that each hole is enlarged toward the front of the screen and the walls thereof assumes at least an approximately parabolical shape opening toward the glass screen and such angular walls are at least partially coated with a metal layer and/or a luminescent material layer for further improved light efficiency (FIG. 4).

Abstract (de)
Zur Erhöhung der Lichtausbeute bei einem Leuchtschirm für flache Bildanzeigergeräte wird vorgeschlagen, auf die Innenseite des Leuchtschirmglases (1) eine Lochplatte (5) zu legen. Die Wände der über den Leuchtpunkten liegenden Plattenlöcher (6) tragen eine Metallisierung (8) und/oder eine Erweiterung der Leuchtschicht (7) des Schirmglases (1) und sind vorzugsweise zum Schirmglas (1) hin wenigstens angenähert parabolisch geöffnet.

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H01J 31/54; H01J 17/49; H01J 29/00

IPC 8 full level
H01J 17/49 (2006.01); **G09F 9/313** (2006.01); **H01J 1/72** (2006.01); **H01J 9/227** (2006.01); **H01J 29/28** (2006.01)

CPC (source: EP US)
H01J 9/2278 (2013.01 - EP US); **H01J 29/28** (2013.01 - EP US)

Citation (search report)

- GB 1052242 A
- CH 344143 A 19600131 - STANDARD TELEPHON & RADIO AG [CH]
- DE 2458677 A1 19750626 - HITACHI LTD
- FR 2278152 A1 19760206 - THOMSON CSF [FR]
- DE 2422698 A1 19741128 - HITACHI LTD
- DE 2105496 B2 19750828
- DE 2534393 A1 19760311 - BURROUGHS CORP
- DE 2421442 A1 19741128 - GTE SYLVANIA INC
- DE 2135132 B2 19721116

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DOCDB simple family (application)
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