

Title (en)

Display system and method of operating same.

Title (de)

Anzeigesystem und Verfahren zur Inbetriebnahme.

Title (fr)

Dispositif d'affichage et méthode pour sa mise en marche.

Publication

**EP 0074440 A1 19830323 (EN)**

Application

**EP 81304149 A 19810910**

Priority

EP 81304149 A 19810910

Abstract (en)

A display system and operating method in which ultraviolet radiation is produced and made to impinge on fluorescent phosphors (54) and visible through translucent protective layer (62). The ultraviolet radiation is generated by application of a potential between the cathode cells and annular anodes (46) spaced therefrom by a dielectric film (38) having apertures (44) therein aligned with the cathode cells. The assembly is hermetically sealed by a reflective backing panel (64) which defines a chamber (66) communicating with the cathode cells (22) and containing an inert gas. Display is initiated by application of a first potential across the anodes and cathodes. Ions produced in the gaseous medium impinge on the metallic coating (28) and sputter metal atoms therefrom which ionize under a second applied potential thereby to produce the ultraviolet radiation for conversion into visible radiation by the fluorescent phosphors (54).

IPC 1-7

**H01J 17/49**

IPC 8 full level

**H01J 17/49** (2012.01)

CPC (source: EP)

**H01J 17/49** (2013.01); **H01J 17/497** (2013.01)

Citation (search report)

- US 4047077 A 19770906 - VEITH WERNER
- US 4176297 A 19791127 - DIONNE JOSEPH G G [CA], et al
- US 3956667 A 19760511 - VEITH WERNER
- US 3984720 A 19761005 - WATANABE SATOSHI
- US 3803439 A 19740409 - SASAKI R, et al
- US 3986074 A 19761012 - WATANABE MASANORI, et al
- US 3873870 A 19750325 - FUKUSHIMA MASAKAZU, et al
- US 3886389 A 19750527 - OGLE JAMES A
- US 3886390 A 19750527 - MALONEY THOMAS C, et al
- US 3886395 A 19750527 - FUKUSHIMA MASAKAZU, et al
- US 3890609 A 19750617 - SASAKI RENTARO, et al
- US 3896327 A 19750722 - SCHERMERHORN JERRY D
- US 3882342 A 19750506 - KAMEGAYA TAKEO, et al

Cited by

EP0813220A1; EP1845549A3; WO9604672A1; US7196471B2; US7339319B2; US6297582B1; US6630789B2; US7088042B2

Designated contracting state (EPC)

AT BE DE FR GB IT

DOCDB simple family (publication)

**EP 0074440 A1 19830323; EP 0074440 B1 19870325**; AT E26192 T1 19870415; DE 3176050 D1 19870430

DOCDB simple family (application)

**EP 81304149 A 19810910**; AT 81304149 T 19810910; DE 3176050 T 19810910