

Title (en)

Triode structure flat panel display employing flat field emission cathodes

Title (de)

Flache Feldemissionskathode anwendende flache Anzeigevorrichtung mit Triodenstruktur

Title (fr)

Affichage à écran plat à structure triode utilisant des cathodes plates à émission de champ

Publication

**EP 0971386 B1 20040616 (EN)**

Application

**EP 99202988 A 19931206**

Priority

- EP 94905334 A 19931206
- US 99386392 A 19921223

Abstract (en)

[origin: WO9415352A1] A flat panel display for displaying visual information includes a plurality of corresponding light-emitting anodes (130), and field-emission cathodes (170), each of the anodes emitting light in response to emission from each of the corresponding cathodes, each of the cathodes (170) including a layer of low work function material having a relatively flat emission surface of a plurality of distributed localized electron emission sites and a grid assembly (102) interposed between the corresponding anodes (130) and cathodes (170) to thereby control emission levels to the anodes from the corresponding cathodes.

IPC 1-7

**H01J 31/12**

IPC 8 full level

**H01J 1/304** (2006.01); **H01J 9/02** (2006.01); **H01J 29/04** (2006.01); **H01J 31/12** (2006.01); **H01J 63/06** (2006.01)

CPC (source: EP KR)

**H01J 1/304** (2013.01 - EP); **H01J 1/3042** (2013.01 - EP); **H01J 9/027** (2013.01 - EP); **H01J 19/24** (2013.01 - KR); **H01J 31/127** (2013.01 - EP); **H01J 63/06** (2013.01 - EP); **H01J 2201/30457** (2013.01 - EP); **H01J 2201/319** (2013.01 - EP); **H01J 2329/8625** (2013.01 - EP)

Cited by

EP1868226A4; US10658144B2; US10424455B2; WO2019023080A1

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

**WO 9415352 A1 19940707**; AU 5897494 A 19940719; CA 2152472 A1 19940707; DE 69328977 D1 20000810; DE 69328977 T2 20001228; DE 69333555 D1 20040722; DE 69333555 T2 20050818; EP 0676084 A1 19951011; EP 0676084 A4 19970219; EP 0676084 B1 20000705; EP 0971386 A2 20000112; EP 0971386 A3 20000517; EP 0971386 B1 20040616; JP H08505259 A 19960604; KR 100284830 B1 20010402; KR 950704802 A 19951120

DOCDB simple family (application)

**US 9311791 W 19931206**; AU 5897494 A 19931206; CA 2152472 A 19931206; DE 69328977 T 19931206; DE 69333555 T 19931206; EP 94905334 A 19931206; EP 99202988 A 19931206; JP 51518794 A 19931206; KR 19950702598 A 19950623