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(54) PLASMA DISPLAY DEVICE

Abstract

The present invention discloses a plasma display device.

The present invention relates to a plasma display device having a front panel with a stripe-shaped display anode installed in parallel on a lower surface, a rear panel sealed with the front panel and having a display cathode formed on an upper surface thereof to be orthogonal to the display anode, and a partition wall for preventing crosstalk between red, blue, and green pixels while maintaining a certain distance between the rear panel and the front panel, wherein the arrangement of the red and blue pixels is characterized in that red and blue are adjacent to each other, and green and black pixels are positioned below the red and blue pixels, and are arranged in a square (田) shape, which has the advantage of being able to make the luminance between pixels uniform and improve the contrast.

Representative drawing

FIG. 3

Specification

[Title of Invention]

Plasma display device

[Brief description of drawings]

FIG. 3 is a perspective view of the plasma display device according to the present invention.

FIG. 4 is a plane view illustrating the arrangement state of pixels according to the present invention.

FIG. 5 is a perspective view illustrating the formation state of black pixels.

Since this content is subject to disclosure of major parts, the full text is not enclosed.

(57) Scope of claims

Claim 1

A plasma display device composed of a front panel with a stripe-shaped display anode installed in parallel on a lower surface, a rear panel sealed with the front panel and having a display cathode formed on an upper surface thereof to be orthogonal to

the display anode, and a partition wall for preventing crosstalk between red, blue, and green pixels while maintaining a certain distance between the rear panel and the front panel,

wherein the arrangement of the red and blue pixels is characterized in that red and blue are adjacent to each other, and green and black pixels are positioned below the red and blue pixels.

Claim 2

The plasma display device of claim 1,

wherein the black area is formed to be relatively narrow among the red, blue, green, and black areas.

Claim 3

A plasma display device having a front panel with a stripe-shaped display anode installed in parallel on a lower surface,

a rear panel sealed with the front panel and having a display cathode formed on an upper surface thereof to be orthogonal to the display anode, and a partition wall for preventing crosstalk between red, blue, and green pixels while maintaining a certain distance between the rear panel and the front panel,

wherein the arrangement of the red and blue pixels is characterized in that the red, blue, and green pixels are arranged in-line, and black pixels are interposed between them and on both sides.

Claim 4

The plasma display device of claim 1,

wherein the area of each black pixel interposed between and on both sides of the red, green, and blue pixels is formed differently according to the relative luminance difference between the red, green, and blue pixels.

※ Note: Disclosed according to the content of the initial application.

Figures

FIG. 3

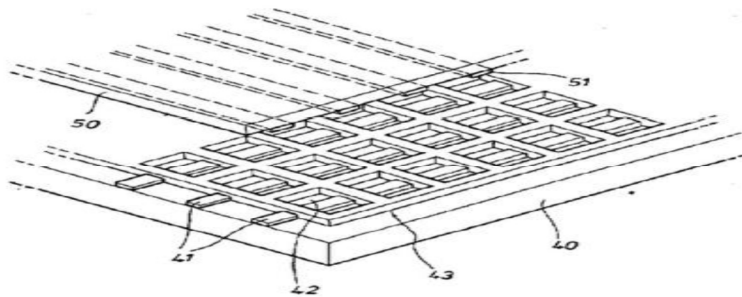


FIG. 4

<i>R</i>	<i>B</i>	<i>R</i>	<i>B</i>	
<i>G</i>	<i>L</i>	<i>G</i>	<i>L</i>	
<i>R</i>	<i>B</i>	<i>R</i>	<i>B</i>	
<i>G</i>	<i>L</i>	<i>G</i>	<i>L</i>	

FIG. 5

<i>R</i>	<i>B</i>	
<i>G</i>	<i>L</i>	



TRANSLATOR CERTIFICATION

Date: January 12, 2023

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