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**Arai et al.**

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(54) **VIDEO DISPLAY APPARATUS FOR CORRECTING LUMINANCE DIFFERENCE BETWEEN DISPLAY PIXELS**

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(51) **Int. Cl.**

**H04N 5/57** (2006.01)

**H04N 5/14** (2006.01)

**G09G 5/02** (2006.01)

(52) **U.S. Cl.** ..... **348/687**; 348/672; 348/679; 348/790; 345/600; 345/63

(58) **Field of Classification Search** ..... 348/672-675, 348/678, 679, 687, 790, 791, 795-803; 345/589, 345/593, 600-605, 63, 77, 78  
See application file for complete search history.

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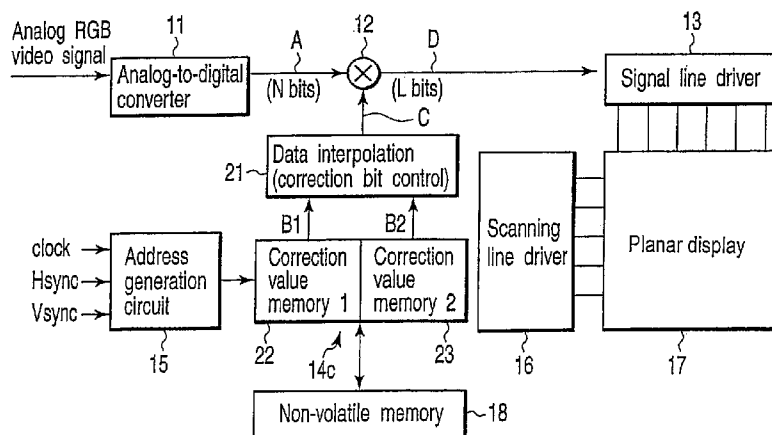
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(57) **ABSTRACT**

An analog-to-digital converter converts a video signal into a digital video signal consisting of N bits and outputs the converted signal. A correction value memory stores correction data consisting of M bits which is used to correct the difference in luminance between display pixels on a display. A multiplier multiplies the video signal consisting of N bits output from the analog-to-digital converter by the correction data consisting of M bits stored in the correction value memory, and outputs a video signal consisting of L bits with which the difference in luminance between display pixels on the display is corrected.

**5 Claims, 5 Drawing Sheets**



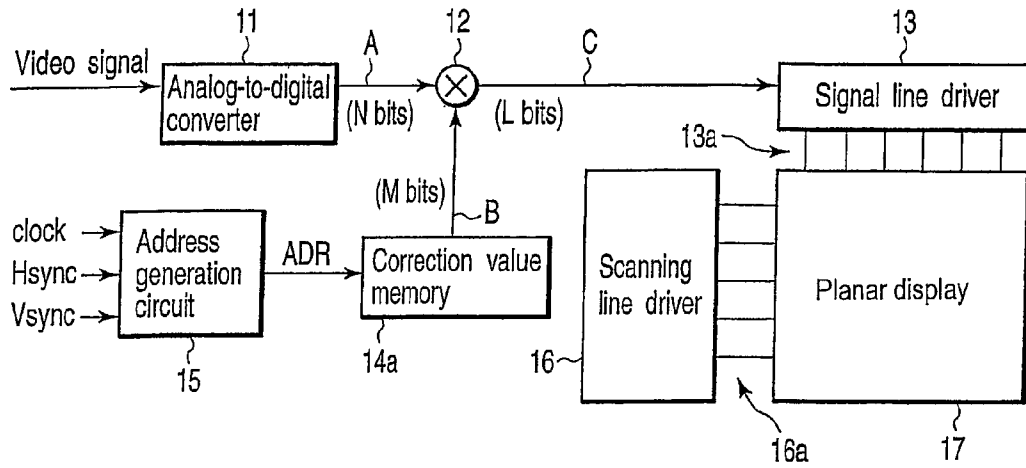


FIG. 1

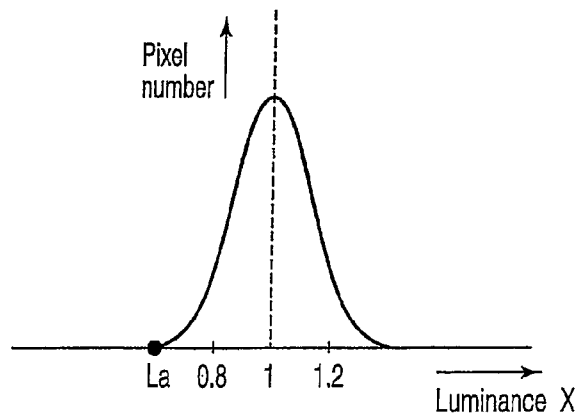


FIG. 2

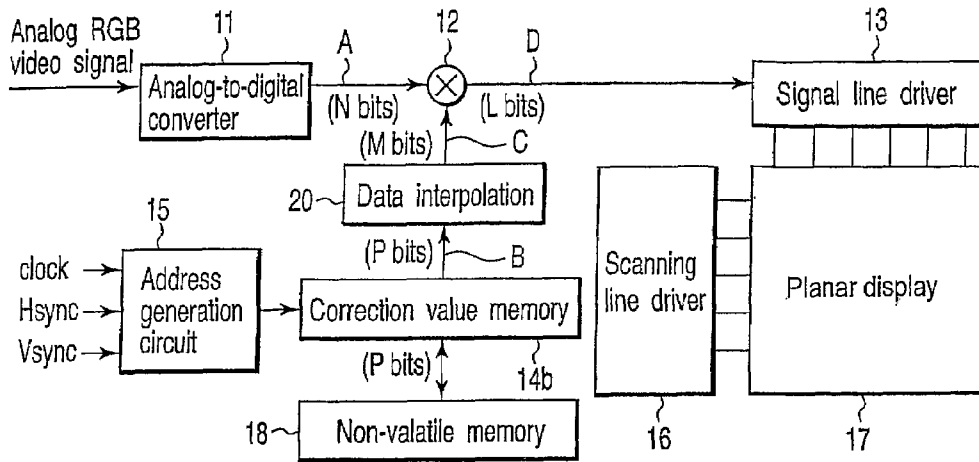


FIG. 3

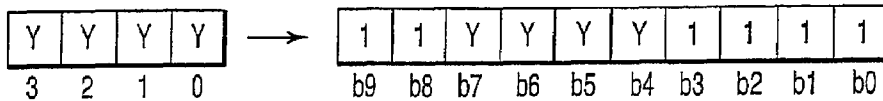


FIG. 4A

FIG. 4B

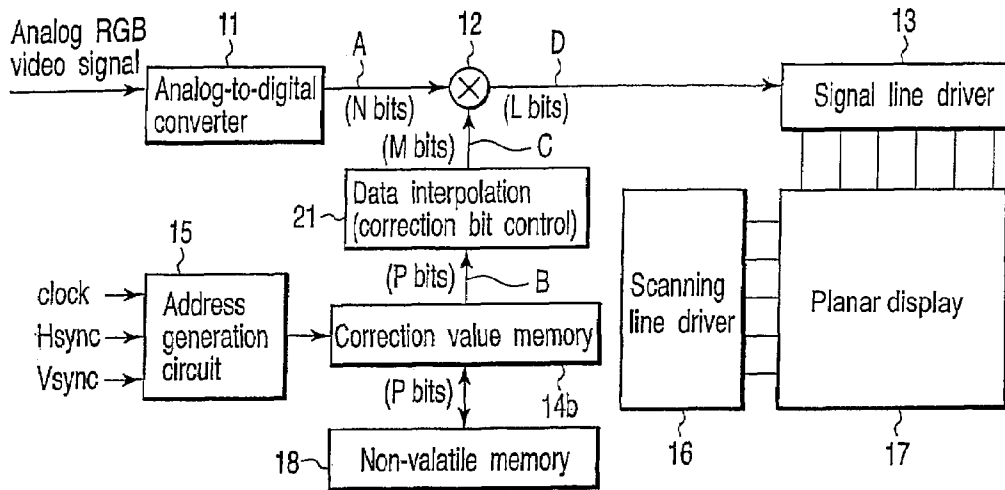


FIG. 5

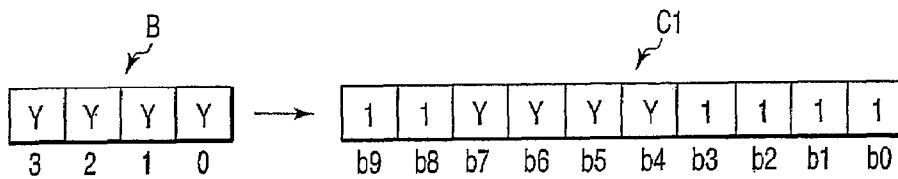


FIG. 6A

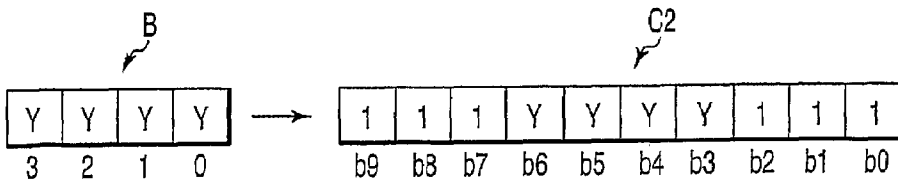


FIG. 6B

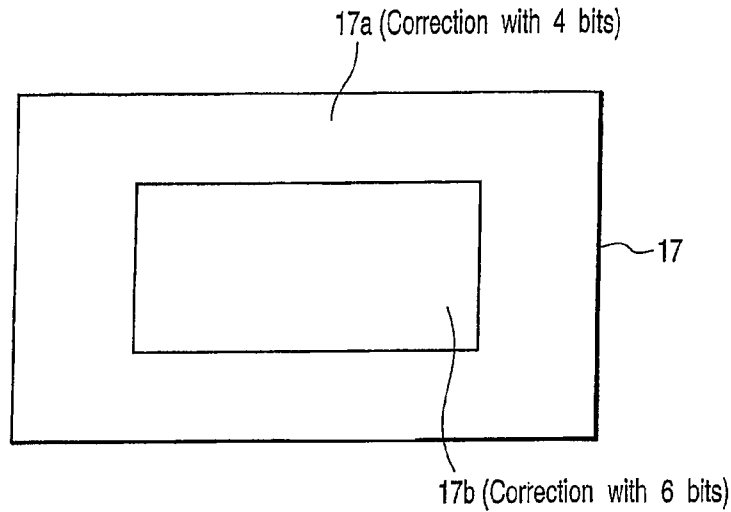


FIG. 7

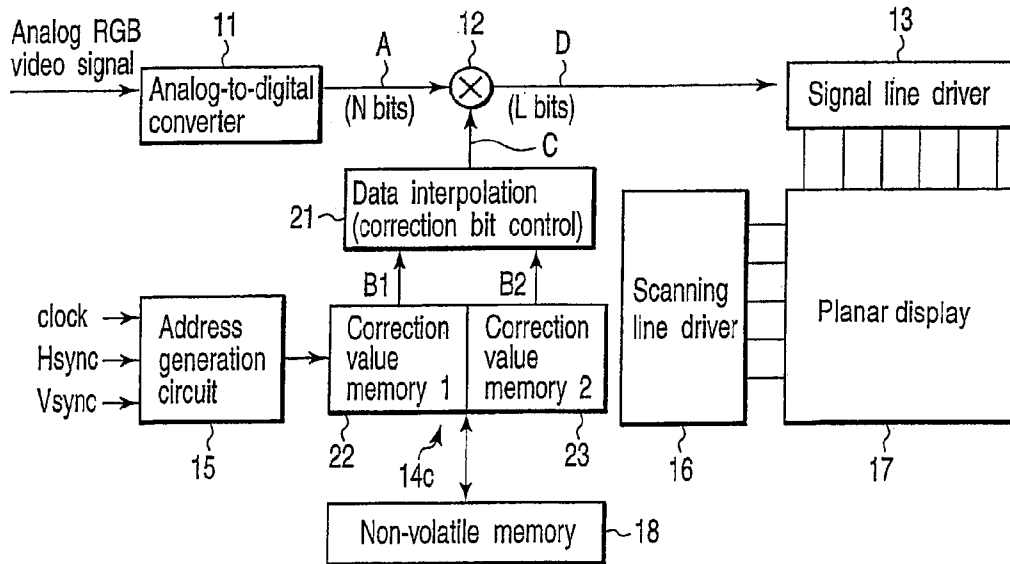


FIG. 8

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