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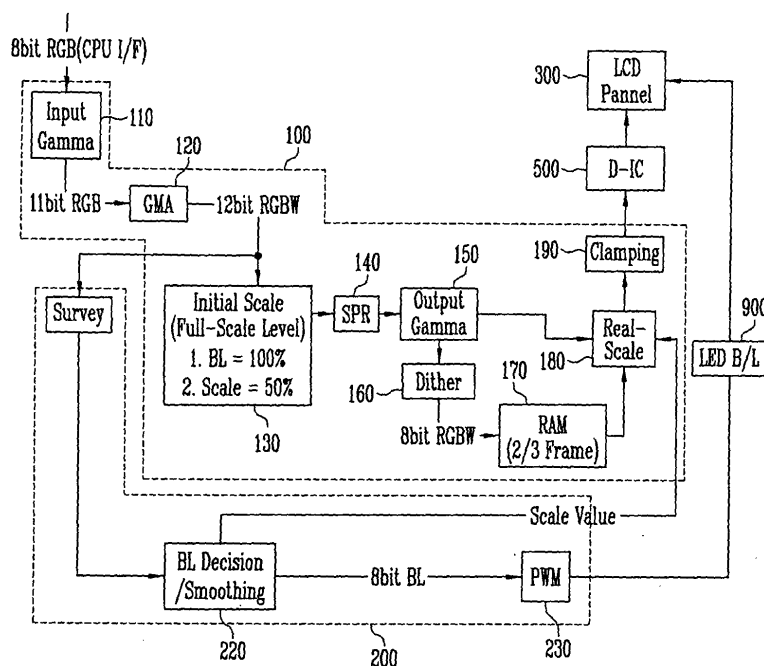
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(54) **Liquid crystal display with RGBW pixels and dynamic backlight control**

(57) A liquid crystal display (LCD) capable of converting input RGB data into RGBW data to provide the RGBW data to a panel. The LCD simultaneously controls the light level of a backlight and the amount of the RGBW

data to prevent RGBW picture quality from being damaged in pure color data, minimizes the power consumption of the LCD, and applies the above to a CPU interface method as well as an RGB interface method.

FIG. 6



EP 2 339 570 A3



EUROPEAN SEARCH REPORT

Application Number
EP 10 25 1924

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 24 August 2011	Examiner Corsi, Fabio
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EUROPEAN SEARCH REPORT

Application Number
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Place of search Munich		Date of completion of the search 24 August 2011	Examiner Corsi, Fabio
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专利名称(译)	具有RGBW像素和动态背光控制的液晶显示器		
公开(公告)号	EP2339570A3	公开(公告)日	2011-10-05
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优先权	1020090109021 2009-11-12 KR		
其他公开文献	EP2339570A2 EP2339570B1		
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摘要(译)

一种液晶显示器 (LCD)，能够将输入RGB数据转换为RGBW数据，以将RGBW数据提供给面板。LCD同时控制背光的亮度和RGBW数据量，以防止RGBW图像质量在纯色数据中被损坏，最大限度地降低LCD的功耗，并将上述内容应用于CPU接口方法以及RGB接口方法。

FIG. 6

