Sony Corporation, Samsung Electronics C
Ltd., and Samsung Display Co., Ltd., .

v.

Surpass Tech Innovation LLC, Patent Owr

IPR2015-00863

U.S. Patent 7,202,843

Petitioners' Demonstratives

Walter Hanley, Lead Counsel

John Flock, Backup Counsel

Jay Alexander, Backup Counsel

Grounds for Institution

Trial instituted on Claims 4 to 9 of the ’843 Patent:

- Obviousness over Suzuki and Nitta under 35 U.S.C 103(a).

’843 Patent

A liquid crystal display (LCD) has advantages of light-weight, low power consumption, and low divergence and is applied to various portable equipment such as notebook computers and personal digital assistants (PDAs). In addition, LCD monitors and LCD televisions are gaining in popularity as a substitute for traditional cathode ray tube (CRT) monitors and televisions. However, an LCD does have some disadvantages. Because of the limitations of physical characteristics, the liquid crystal molecules need to be twisted and rearranged when changing input data, which can cause the images to be delayed. For satisfying the rapid switching requirements of multimedia equipment, improving the response speed of liquid crystal is desired.

’843 Patent

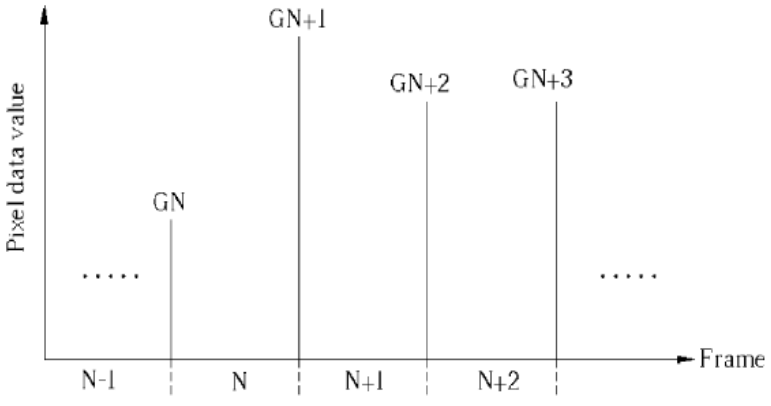

Fig. 1 Prior art

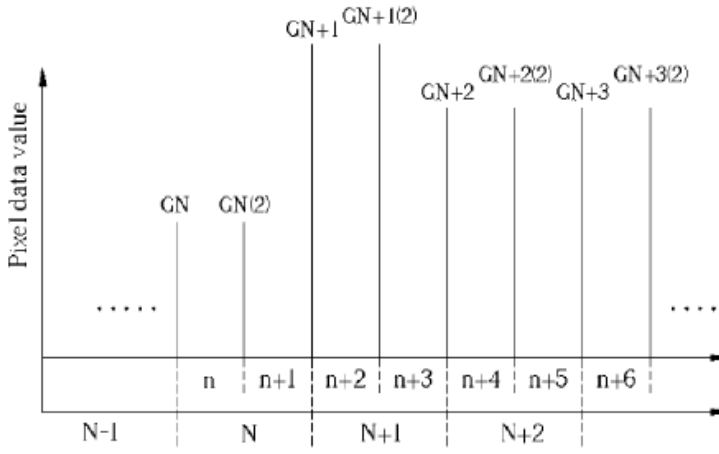

Fig. 5

’843 Patent: Claim 4

4. A method for driving a liquid crystal display (LCD) panel, the LCD panel comprising:

a plurality of scan lines;

a plurality of data lines; and

a plurality of pixels, each pixel being connected to a corresponding scan line and a corresponding data line, and each pixel comprising a liquid crystal device and a switching device connected to the corresponding scan line, the corresponding data line, and the liquid crystal device, and

the method comprising:

receiving continuously a plurality of frame data;

generating a plurality of data impulses for each pixel within every frame period according to the frame data; and

applying the data impulses to the liquid crystal device of one of the pixels within one frame period via the data line connected to the pixel in order to control a transmission rate of the liquid crystal device of the pixel.

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