

Title (en)

Method and system for improving electro-optic response rate of liquid crystal light valves.

Title (de)

Verfahren und Vorrichtung zur Verbesserung der elektrooptischen Ansprechgeschwindigkeit eines Flüssigkristalllichtventils.

Title (fr)

Méthode et système pour améliorer le vitesse de réponse électro-optique d'une valve optique à cristaux liquides.

Publication

EP 0608556 A1 19940803 (EN)

Application

EP 93120725 A 19931222

Priority

US 99586092 A 19921223

Abstract (en)

A fast response liquid crystal light valve (LCLV) system comprises an LCLV (6) that includes a liquid crystal layer (18) and responds to changes in an input video signal (28) by modifying the optical properties of said liquid crystal layer (18), the video signal comprising a series of successive video frames. Further provided are means (36) for modifying said video signal by imposing thereon a compensating signal that, in response to a change in the gray scale level of said video signal for two successive frames, provides an additional drive to force a faster response by the liquid crystal layer (18) than its response to the drive provided by the unmodified video signal, and means for applying said modified video signal to provide a modulating input to said LCLV (6). <IMAGE>

IPC 1-7

G09G 3/36; G09G 3/02

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

- [A] EP 0187533 A2 19860716 - SONY CORP [JP]
- [PA] PATENT ABSTRACTS OF JAPAN vol. 17, no. 448 (P - 1594) 17 August 1993 (1993-08-17)
- [A] J. TRIAS ET AL.: "A 1075-line video-rate laser-addressed liquid-crystal light-valve projection display.", PROCEEDINGS OF THE SID., vol. 29, no. 4, 1988, LOS ANGELES US, pages 275 - 277
- [A] DUANE HAVEN: "Electron-beam addressed liquid-crystal light-valve.", CONFERENCE RECORDS OF 1982 INTERNATIONAL DISPLAY RESEARCH CONFERENCE, 19 October 1982 (1982-10-19), NEW YORK, N.Y., U.S.A., pages 72 - 75, XP001373738

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