

Title (en)

SIGNAL PROCESSING SYSTEM FOR SYNTHESIZING HOLOGRAMS

Title (de)

SIGNALVERARBEITUNGSSYSTEME

Title (fr)

SYSTEME DE TRAITEMENT DE SIGNAL POUR SYNTHETISER DES HOLOGRAMMES

Publication

**EP 1891485 A2 20080227 (EN)**

Application

**EP 06755786 A 20060613**

Priority

- GB 2006050152 W 20060613
- GB 0511962 A 20050614
- GB 0512905 A 20050627

Abstract (en)

[origin: WO2006134398A2] This invention relates to hardware acceleration of signal processing systems for displaying an image using holographic techniques. A hardware accelerator for a holographic image display system, the image display system being configured to generate a displayed image using a plurality of holographically generated temporal subframes, said temporal subframes being displayed sequentially in time such that they are perceived as a single reduced-noise image, each said subframe being generated holographically by modulation of a spatial light modulator with holographic data such that replay of a hologram defined by said holographic data defines a said subframe, the hardware accelerator comprising: an input buffer to store image data defining said displayed image; an output buffer to store holographic data for a said subframe; at least one hardware data processing module coupled to said input data buffer and to said output data buffer to process said image data to generate said holographic data for a said subframe; and a controller coupled to said at least one hardware data processing module to control said at least one data processing module to provide holographic data for a plurality of said subframes corresponding to image data for a single said displayed image to said output data buffer.

IPC 8 full level

**G03H 1/08** (2006.01)

CPC (source: EP)

**G03H 1/0841** (2013.01); **G03H 1/2294** (2013.01); **G03H 2001/2297** (2013.01); **G03H 2210/20** (2013.01); **G03H 2225/32** (2013.01); **G03H 2226/02** (2013.01); **G03H 2240/41** (2013.01); **G03H 2240/42** (2013.01)

Citation (search report)

See references of WO 2006134398A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006134398 A2 20061221**; **WO 2006134398 A3 20070208**; **WO 2006134398 A8 20080502**; EP 1891485 A2 20080227

DOCDB simple family (application)

**GB 2006050152 W 20060613**; EP 06755786 A 20060613