

Title (en)
IMPROVED 3D DISPLAY

Title (de)
VERBESSERTE DREIDIMENSIONALE ANZEIGEVORRICHTUNG

Title (fr)
AFFICHAGE 3D AMELIORE

Publication
EP 1332410 A1 20030806 (EN)

Application
EP 01982588 A 20011102

Priority
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Abstract (en)
[origin: WO0239192A1] A method of generating a Computer Generated Hologram (CGH) using the diffraction specific algorithm allows a curved wavefront to be produced from a single hogel, rather than the planar waves of the prior art. This allows a wavefront from a singel hogel to generate a point in the image volume. An imaginary wavefron is transmitted from each point in the image volume and sampled at a plurality of points over the hogel. These samples are used to produce a set of complex Fourier coefficients that can be used to approximate the original waveform.

IPC 1-7
G03H 1/08

IPC 8 full level
G03H 1/08 (2006.01); **G03H 1/12** (2006.01); **G03H 1/16** (2006.01)

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Citation (search report)
See references of WO 0239192A1

Citation (examination)
• YOSHIKAWA H.; KAMEYAMA H.: "INTEGRAL HOLOGRAPHY", PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 2406, 6 August 1995 (1995-08-06), pages 226 - 234, XP009002331
• MEANO K. ET AL: "ELECTRO-HOLOGRAPHIC DISPLAY USING 15MEGA PIXELS LCD", PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 2652, 1996, pages 15 - 23, XP000923279

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