

SECTION G — PHYSICS

G03 PHOTOGRAPHY; CINEMATOGRAPHY; ANALOGOUS TECHNIQUES USING WAVES OTHER THAN OPTICAL WAVES; ELECTROGRAPHY; HOLOGRAPHY

G03H HOLOGRAPHIC PROCESSES OR APPARATUS (holograms, e.g. point holograms, used as ordinary optical elements G02B 5/32; producing stereoscopic or other three-dimensional effects G02B 27/22; diffraction-grating systems G02B 27/44; systems using moire fringes G02B 27/60; optical logic elements G02F 3/00; stereo-photography G03B 35/00; photosensitive materials or processes for photographic purposes G03C; apparatus for processing exposed photographic materials G03D; analogue computers performing mathematical operations with the aid of optical elements G06E 3/00; authentication, by radiation, of concealed information carried by holograms or diffraction gratings G06K 19/16; holographic storage G11B 7/0065, G11C 13/04) [2]

Note(s)

This subclass covers means for producing a record of the phase and amplitude information of a wave-front, which information can be used to reconstruct the original wave-front, or means to reconstruct the original wave-front from a record containing the phase and amplitude information of the wave-front.

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| <p>1/00 Holographic processes or apparatus using light, infra-red, or ultra-violet waves for obtaining holograms or for obtaining an image from them; Details peculiar thereto [2]</p> | <p>1/22 • Processes or apparatus for obtaining an optical image from holograms (G03H 1/26-G03H 1/34 take precedence) [2]</p> |
| <p>1/02 • Details [2]</p> | <p>1/24 • • using white light [2]</p> |
| <p>1/04 • Processes or apparatus for producing holograms (G03H 1/26 takes precedence) [2]</p> | <p>1/26 • Processes or apparatus specially adapted to produce multiple holograms or to obtain images from them, e.g. multicolour technique [2]</p> |
| <p>1/06 • • using incoherent light [2]</p> | <p>1/28 • • superimposed holograms only [2]</p> |
| <p>1/08 • • Synthesising holograms (using electric digital computers G06F, G06T) [2]</p> | <p>1/30 • • discrete holograms only [2]</p> |
| <p>1/10 • • using modulated reference beam [2]</p> | <p>1/32 • Systems for obtaining speckle elimination [2]</p> |
| <p>1/12 • • • Spatial modulation, e.g. ghost imaging [2]</p> | <p>1/34 • Systems for reducing the space-spatial bandwidth product [2]</p> |
| <p>1/14 • • • Temporal modulation, e.g. extending depth of field or phase compensation for object motion [2]</p> | <p>3/00 Holographic processes or apparatus using ultrasonic, sonic, or infrasonic waves for obtaining holograms; Processes or apparatus for obtaining an optical image from them (G03H 1/22 takes precedence) [2]</p> |
| <p>1/16 • • using Fourier transform (G03H 1/12, G03H 1/14 take precedence; analogue computers G06G, e.g. G06G 7/19) [2]</p> | <p>5/00 Holographic processes or apparatus using particles or using waves other than those covered by groups G03H 1/00 or G03H 3/00 for obtaining holograms; Processes or apparatus for obtaining an optical image from them (G03H 1/22 takes precedence; construction of electron microscopes H01J 37/26) [2]</p> |
| <p>1/18 • • Particular processing of hologram record carriers, e.g. for obtaining blazed holograms [2]</p> | |
| <p>1/20 • • Copying holograms by holographic means [2]</p> | |