

Title (en)

HYBRID REFLECTION HOLOGRAM

Title (de)

HYBRIDES REFLEXIONSHOLOGRAMM

Title (fr)

HOLOGRAMME HYBRIDE PAR REFLEXION

Publication

EP 2005225 A2 20081224 (EN)

Application

EP 07758837 A 20070319

Priority

- US 2007064325 W 20070319
- US 78350206 P 20060317
- US 45982106 A 20060725

Abstract (en)

[origin: WO2007109626A2] Hybrid white-light viewable holograms and methods for making them. The holograms are hybrid reflection holograms made using the diffractive structures or gratings of a holographic object such as a transmission hologram or holographic optical element (HOE). The wavefronts of the diffractive structures are converted into a reflection hologram by scanning them with a coherent light source having a profiled narrow beam. The hybrid reflection hologram can exhibit display parameters including the multiple colors, solidity, and color stability of white light reflection holograms, the diffractive color shifting of a white light transmission hologram, three dimensional imaging and a wide variety of dynamic changes. Different areas or images with each of these effects can be combined in a single hologram. These hybrid reflection holograms are ideal for security and forgery prevention applications.

IPC 8 full level

G02B 5/32 (2006.01)

CPC (source: EP)

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G03H 2001/205 (2013.01); **G03H 2001/207** (2013.01); **G03H 2001/2231** (2013.01)

Citation (third parties)

Third party :

- US 4209250 A 19800624 - JAMES RANDALL P [US], et al
- US 4995685 A 19910226 - ARMSTRONG MARK L [US], et al
- EP 1217469 A2 20020626 - DU PONT [US]
- EP 1511636 B1 20080903 - GIESECKE & DEVRIENT GMBH [DE]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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