

Title (en)  
VOLUME PHASE HOLOGRAM AND METHOD FOR PRODUCING THE SAME

Title (de)  
VOLUMENPHASENHOLOGRAMM UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)  
HOLOGRAMME DE PHASE VOLUMIQUE ET PROCEDE DE PRODUCTION DUDIT HOLOGRAMME

Publication  
**EP 1023643 A1 20000802 (EN)**

Application  
**EP 98946901 A 19980910**

Priority  
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• US 9818778 W 19980910

Abstract (en)  
[origin: WO9915939A1] The hologram comprises: a porous transparent sileaceous body having a plurality of mutually interconnected microcavities or pores, the mean radius of which is lower than the wavelength of the hologram recording light and the wavelength of the hologram reading light, a photolysis product of a photolysable material, said product being attached to walls of certain microcavities and being spatially distributed in accordance with the recorded interference pattern, and a solid transparent polymeric material filling said microcavities, said polymeric material exhibiting local variations of refractive index, said variations being spatially modulated in conformity with the recorded interference pattern, said photolysis product being a polymerization modifier for a composition polymerizable into said polymeric filling material.

IPC 1-7  
**G03H 1/02**; **G03H 1/04**; **G03H 1/18**; **G03C 1/735**; **G03C 1/73**

IPC 8 full level  
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CPC (source: EP KR)  
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