

Title (en)

METHOD FOR REDUCING THE INTERLAYER INTERFERENCE IN MULTILAYER HOLOGRAMS

Title (de)

VERFAHREN ZUR REDUZIERUNG VON ZWISCHENSCHICHTINTERFERENZEN IN MEHRSCICHTIGEN HOLOGRAMMEN

Title (fr)

PROCÉDÉ DE RÉDUCTION DE L'INTERFÉRENCE INTERCOUCHE DANS DES HOLOGRAMMES MULTICOUCHE

Publication

EP 4088092 A4 20230222 (EN)

Application

EP 21738362 A 20210223

Priority

- TR 202000238 A 20200108
- TR 2021050164 W 20210223

Abstract (en)

[origin: WO2021141565A2] The present invention relates to a method for calculating and projecting 3-D holograms built in a multilayer manner. In particular, the present invention relates to a method for determining the image layers for forming the multilayer or multi-slice 3D volumetric images and the distances to be projected of said images and also for reducing the interlayer interference in holograms for forming the multilayer 3D volumetric images by means of the random selection of the phase of the image to be formed in each layer.

IPC 8 full level

G03H 1/08 (2006.01)

CPC (source: EP)

G03H 1/0808 (2013.01); **G03H 2001/0825** (2013.01); **G03H 2210/30** (2013.01); **G03H 2210/441** (2013.01); **G03H 2210/454** (2013.01)

Citation (search report)

- [X] MAKEY GHAITH ET AL: "Breaking crosstalk limits to dynamic holography using orthogonality of high-dimensional random vectors", NATURE PHOTONICS, NATURE PUBLISHING GROUP UK, LONDON, vol. 13, no. 4, 22 March 2019 (2019-03-22), pages 251 - 256, XP036738184, ISSN: 1749-4885, [retrieved on 20190322], DOI: 10.1038/S41566-019-0393-7
- See references of WO 2021141565A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021141565 A2 20210715; **WO 2021141565 A3 20220106**; EP 4088092 A2 20221116; EP 4088092 A4 20230222; TR 202000238 A2 20210726

DOCDB simple family (application)

TR 2021050164 W 20210223; EP 21738362 A 20210223; TR 202000238 A 20200108