Title (en)

METHOD AND DEVICE FOR CODING A DIGITAL HOLOGRAM SEQUENCE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR CODIERUNG EINER DIGITALEN HOLOGRAMMSEQUENZ

Title (fr)

PROCÉDÉ ET DISPOSITIF DE CODAGE D'UNE SÉQUENCE D'HOLOGRAMMES NUMÉRIQUES

Publication

EP 3994890 A1 20220511 (FR)

Application

EP 20733836 A 20200624

Priority

- FR 1907555 A 20190705
- EP 2020067744 W 20200624

Abstract (en)

[origin: WO2021004797A1] The present invention concerns a method and a device for coding a sequence comprising at least a first digital hologram (H1) representing a first scene and a second digital hologram (H2) representing a second scene, the first digital hologram (H1) and the second digital hologram (H2) being represented by means of a set of wavelets each defined by a multiplet of coordinates in a multidimensional space. The first hologram (H1) is represented by a set of first coefficients (c1(k,s,X)) respectively associated with at least some of the wavelets of the set of wavelets, and the second hologram (H2) is represented by a set of second coefficients (C2(k',s',X')) respectively associated with at least some of the wavelets of the set of wavelets. The coding method comprises the following steps: - for each of a plurality of seconds coefficients (C2(k',s',X')), determining a remainder (lk',s',X') by a difference between the second coefficient concerned (C2(k',s',X')), associated with a first wavelet defined by a given multiplet ((k',s',X')), and the first coefficient (c1(k,s,X)) associated with a second wavelet defined by a multiplet ((k,s,X)) having as its image the multiplet ((k',s',X')) given by transform (Gi) in the multidimensional space; - coding the determined remainders (lk',s',X'). The transform (Gi) is determined by analysis of variation between the first scene represented by the first digital hologram (H1) and the second scene represented by the second digital hologram (H2).

IPC 8 full level

H04N 19/597 (2014.01); **G03H 1/00** (2006.01); **H04N 19/20** (2014.01); **H04N 19/547** (2014.01); **H04N 19/61** (2014.01); **H04N 19/63** (2014.01)

CPC (source: EP US)

G03H 1/08 (2013.01 - EP); **G03H 1/0841** (2013.01 - US); **H04N 19/119** (2014.11 - US); **H04N 19/137** (2014.11 - US); **H04N 19/18** (2014.11 - US); **H04N 19/20** (2014.11 - EP); **H04N 19/547** (2014.11 - EP); **H04N 19/597** (2014.11 - EP US); **H04N 19/61** (2014.11 - EP); **H04N 19/63** (2014.11 - EP US); G03H 2226/02 (2013.01 - US)

Citation (search report)

See references of WO 2021004797A1

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

DOCDB simple family (publication)

FR 3098367 A1 20210108; **FR 3098367 B1 20230127**; EP 3994890 A1 20220511; US 2022272380 A1 20220825; WO 2021004797 A1 20210114

DOCDB simple family (application)

FR 1907555 A 20190705; EP 2020067744 W 20200624; EP 20733836 A 20200624; US 202017624748 A 20200624