

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

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Application  
**EP 20733836 A 20200624**

Priority  
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• 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 ( $c_1(k,s,X)$ ) 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 ( $C_2(k',s',X')$ ) 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 second coefficients ( $C_2(k',s',X')$ ), determining a remainder ( $lk',s',X'$ ) by a difference between the second coefficient concerned ( $C_2(k',s',X')$ ), associated with a first wavelet defined by a given multiplet ( $(k',s',X')$ ), and the first coefficient ( $c_1(k,s,X)$ ) associated with a second wavelet defined by a multiplet ( $(k,s,X)$ ) having as its image the multiplet ( $(k',s',X')$ ) given by transform ( $G_i$ ) in the multidimensional space; - coding the determined remainders ( $lk',s',X'$ ). The transform ( $G_i$ ) 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).

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CPC (source: EP US)  
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Citation (search report)  
See references of WO 2021004797A1

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