Title (en)

METHOD FOR SIMULATING OPTICAL COMPONENTS FOR THE STEREOSCOPIC PRODUCTION OF SPATIAL IMPRESSIONS

Title (de)

VERFAHREN ZUR SIMULATION VON OPTISCHEN BAUTEILEN ZUR STEREOSKOPISCHEN ERZEUGUNG VON R UMLICHEN ENDR CKEN

Title (fr)

PROCEDE POUR SIMULER DES ELEMENTS OPTIQUES POUR LA CREATION STEREOSCOPIQUE D'IMPRESSIONS DANS L'ESPACE

Publication

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Application

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Abstract (en)

[origin: WO2004023348A1] The invention relates to a simulation method, especially to a method for simulating spatial impressions which are produced by means of an image generator and one or several filter arrays. The inventive method essentially comprises the following steps: a) specification of the geometry of the image generator, b) specification of the geometry of the filter array, c) specification of the spatial arrangement geometry in relation to the image generator and the filter array in a three-dimensional coordinate system (X,Y,Z), d) specification of two mononuclear positions of observation in relation to said arrangement geometry, e) specification of a combined image containing partial information from several viewpoints Ak (k=1 n) of a scene, f) determination of a first and secondary image containing image elements of the predetermined combined image which are visible for the eye of an observer in the respectively predefined first and second mononuclear position of observation on the basis of the specified filter array geometry in conjunction with the spatial arrangement geometry, g) stereoscopic visualization of the first and second secondary image as a respectively left or right stereoscopic image.

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