Title (en)
METHOD AND ARRANGEMENT FOR THREE-DIMENSIONAL REPRESENTATION

Title (de)
VERFAHREN UND ANORDNUNG ZUR DREIDIMENSIONALEN DARSTELLUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF DE REPRÉSENTATION TRIDIMENSIONNELLE

Publication
EP 2143282 A1 20100113 (DE)

Application
EP 07856030 A 20071126

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Abstract (en)
[origin: WO2008122256A1] The invention relates to the field of spatial representation, particularly to images which are spatially perceivable for simultaneous multiple viewers without auxiliary devices so-called autostereoscopic visualization. The invention addresses the problem of creating a form of autostereoscopic representation based on barrier technology in order to achieve an improved perceptibility for multiple simultaneous viewers. This problem is solved by a method for spatial representation wherein image section data of different viewpoints A(k), where k=1,...,n and n=6 or n=7, are made visible on a grid of image elements x(i,,j), and at least one parallax barrier screen containing alternating opaque and transparent sections is placed at a distance before or behind the grid of image elements x(i,,j). The transparent sections substantially correspond to straight bordered lines which, during the parallel projection of parallax barrier screens onto the grid of image elements x(i,,j), are inclined to at least 21 degrees with respect to the vertical direction of the grid of image elements x(i,,j) and, furthermore, each have the width of at least 1.9 image elements x(i,,j) in the horizontal direction of the grid of image elements x(i,,j).

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