

Title (en)
STEREO PROJECTION WITH INTERFERENCE FILTERS

Title (de)
STEREOPROJEKTION MIT INTERFERENZFILTERN

Title (fr)
STÉRÉOPROJECTION À FILTRES D'INTERFÉRENCE

Publication
EP 2116067 A1 20091111 (DE)

Application
EP 07846350 A 20071119

Priority
• DE 2007002088 W 20071119
• DE 102006054713 A 20061119

Abstract (en)
[origin: WO2008061511A1] The invention relates to a stereo projection system and a method for generating an optically perceptible three-dimensional pictorial reproduction. For each of the two perspective partial images (left or right) of the stereo image, regions of the visible spectrum, which are defined differently by colour filters, are masked in such a way that a plurality of only limited spectral intervals is transmitted in the region of the colour perception blue (B), green (G), and red (R). The position of the transmitted intervals is selected differently for the two perspective partial images. The number of transmitted intervals for the two perspective partial images is, according to the invention, selected as lower than 6 (b) either for the image generation or for the image detection by the stereo glasses, and equal to 6 (a). In the event of a reduced number (b), at least one transmitted interval for one of the perspective partial images is selected in transmission in the region of two colour perceptions blue (B), green (G) or red (R), and created by right-left permutation and subsequent combination with an adjacent interval. According to the permuted intervals, the associated image data is analogously permuted. In this way, the cost of the filters, especially interference filters for the stereo projection system or for the method for producing an optically perceptible, three-dimensional pictorial reproduction, is significantly reduced without considerably affecting the reproduction quality. The unpleasant flickering is also reduced.

IPC 8 full level
H04N 13/363 (2018.01)

CPC (source: EP US)
H04N 13/144 (2018.04 - EP US); **H04N 13/324** (2018.04 - EP US); **H04N 13/334** (2018.04 - EP US); **H04N 13/341** (2018.04 - EP US);
H04N 13/363 (2018.04 - EP US); **H04N 13/398** (2018.04 - EP US)

Citation (search report)
See references of WO 2008061511A1

Citation (examination)
JP 2004333561 A 20041125 - JAPAN BROADCASTING CORP

Cited by
US7959295B2; US8403489B2; US10809543B2; US9958693B2; US10802293B2; WO2008140787A2; US11585971B2; US11994702B2;
US7784938B2; US8459796B2; US8503078B2; US8537463B2; US9146402B2; US9547179B2; US9921412B2; US10338399B2; EP2145485B1;
EP2485499B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008061511 A1 20080529; DE 102006054713 A1 20080626; DE 102006054713 B4 20120830; EP 2116067 A1 20091111;
JP 2010510532 A 20100402; JP 5091246 B2 20121205; US 2010066813 A1 20100318

DOCDB simple family (application)
DE 2007002088 W 20071119; DE 102006054713 A 20061119; EP 07846350 A 20071119; JP 2009536602 A 20071119;
US 51534207 A 20071119