

Title (en)

NEAR-EYE DISPLAY WITH SPARSE SAMPLING SUPER-RESOLUTION

Title (de)

AUGENNAHE ANZEIGE MIT SUPERAUFLÖSUNG MIT SPÄRLICHER ABTASTUNG

Title (fr)

AFFICHEUR PROCHE DE L' IL AVEC SUPER-RÉSOLUTION À ÉCHANTILLONNAGE CLAIRSEMÉ

Publication

**EP 3631559 A1 20200408 (EN)**

Application

**EP 18708522 A 20180215**

Priority

- US 201762511561 P 20170526
- US 2018018434 W 20180215

Abstract (en)

[origin: CN110325892A] A near-eye display system (100) includes display panel (118) to display a near-eye lightfield frame (120) comprising an array of elemental images (122) and a lenslet array (124) to present the integral lightfield frame to a user's eye (132). The system further includes a rendering component (104) to generate an array of elemental images (122) based at least in part on a sparse sampling of a sourceimage (202) to decrease an overlap of image data contained within each individual elemental of the array of elemental images. A method of operation of the near-eye display system (100) includes generating an array of elemental images (122) forming the integral lightfield frame (120) based on a sparse sampling of the current viewpoint of the subject object to decrease an overlap of image data contained within each individual elemental image of the array.

IPC 8 full level

**G02B 3/00** (2006.01); **G02B 5/00** (2006.01); **G02B 27/01** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2018217253A1

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