

Title (en)

IMAGING LIGHT GUIDE APPARATUS WITH LIGHT SECURITY

Title (de)

ABBILDUNGSLICHTLEITERVORRICHTUNG MIT LICHTSICHERHEIT

Title (fr)

APPAREIL DE GUIDAGE DE LUMIÈRE D'IMAGERIE À SÉCURITÉ LUMINEUSE

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Application

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Abstract (en)

[origin: WO2023043961A1] A light secure image light guide including an image source operable to generate image-bearing light beams and a waveguide operable to propagate the image-bearing light beams. An in- coupling diffractive optic formed along the waveguide, wherein the in- coupling diffractive optic is operable to diffract a portion of the image-bearing light beams from the image source into the waveguide in an angularly encoded form, and an out-coupling diffractive optic formed along the waveguide, wherein the out-coupling diffractive optic is operable to expand the portion of image-bearing light beams, direct a first portion of expanded image-bearing light beams from the waveguide in an angularly decoded form in a first direction toward an eyebox, and direct a second portion of expanded image-bearing light beams from the waveguide in a second direction different from said first direction. The image light guide further including an optical device operable to reduce, eliminate, and/or block the second portion of expanded image-bearing light beams output from the image light guide in the second direction.

IPC 8 full level

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