

Title (en)
APPARATUS, METHOD, AND COMPUTER PROGRAM PRODUCT FOR SUBSTRATED/COMPONENTIZED WAVEGUIDED GOGGLE SYSTEM

Title (de)
VORRICHTUNG, VERFAHREN UND COMPUTERPROGRAMMPRODUKT FÜR EIN WELLENLEITER-RILLENSYSTEM MIT SUBSTRAT/
KOMPONENTEN

Title (fr)
DISPOSITIF, PROCEDE ET PROGICIEL POUR SYSTEME DE LUNETTES A GUIDES D'ONDES ET A SUBSTRATS/COMPOSANTS

Publication
EP 1766450 A2 20070328 (EN)

Application
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Priority

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- US 90622305 A 20050209
- US 90626105 A 20050211
- US 90625905 A 20050211

Abstract (en)
[origin: WO2005076721A2] An apparatus and method for a substrate-supported goggle system and a componentized goggle system. The electronic goggle apparatus includes one or more semiconductor substrate, each the substrate supporting: a plurality of integrated waveguide structures, each waveguide structure including a guiding channel and one or more bounding regions for propagating a radiation signal from an input to an output; and an influencer system, responsive to a control and coupled to the waveguide structures for independently controlling an amplitude of each the radiation signal at the output; a display system for arranging the outputs of the plurality of waveguide structures into a presentation matrix; and a head-mounted eyewear structure for positioning the presentation matrix in a field-of-view of a user. An operating method includes a) propagating a radiation signal through each of a plurality of waveguide structures supported in one or more substrates and arranged into a presentation matrix, each waveguide structure including a guiding channel and one or more bounding regions for propagating a radiation signal from an input to an output; b) controlling independently an amplitude of each the radiation signal at the output of the corresponding waveguide structure; c) coordinating the radiation signal amplitude control for the plurality of waveguide structures to collectively define a display system from a succession of the amplitude controlled radiation signals; and d) positioning the display system within a field-of-view of a user.

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CPC (source: EP)
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Citation (search report)
See references of WO 2005076721A2

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