

Title (en)

APPARATUS, METHOD, AND COMPUTER PROGRAM PRODUCT FOR STRUCTURED WAVEGUIDE INCLUDING RECURSION ZONE

Title (de)

VORRICHTUNG, VERFAHREN UND COMPUTERPROGRAMMPRODUKT FÜR EINEN STRUKTURIERTEN WELLENLEITER MIT REKURSIONSZONE

Title (fr)

APPAREIL, PROCEDE ET PROGICIEL POUR GUIDE D'ONDES STRUCTURE A ZONE RECURRENTE

Publication

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Application

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Priority

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- US 54459104 P 20040212
- US 81229504 A 20040329
- US 1176104 A 20041214
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- US 90626305 A 20050211

Abstract (en)

[origin: WO2005076722A2] An apparatus and method for a substrate-supported transport system with a radiation baffle system. The transport includes a semiconductor substrate, the substrate supporting: an integrated waveguide structure, the 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 structure for independently controlling an amplitude-influencing attribute of the radiation signal within an influencing zone; and a recursion system for periodically returning the radiation signal into the influencing zone for periodically influencing the amplitude influencing attribute of the radiation signal. The operating method includes a) propagating a radiation signal through a waveguide structure supported in a substrate, the waveguide structure including a guiding channel and one or more bounding regions for propagating the radiation signal from an input to an output; and b) recursing the radiation signal through an influencing zone for periodically influencing an amplitude influencing attribute of the radiation signal.

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