

Title (en)

OPTICAL GUIDE COMPRISING A BEND WITH A PSEUDO-INDEX GRADIENT

Title (de)

OPTISCHE FÜHRUNG MIT EINER BIEGUNG MIT EINEM PSEUDO-INDEX-GRADIENTEN

Title (fr)

GUIDE OPTIQUE PRÉSENTANT UN VIRAGE À PSEUDO-GRADIENT D'INDICE

Publication

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Application

EP 17780484 A 20170918

Priority

- FR 1658809 A 20160920
- FR 2017052479 W 20170918

Abstract (en)

[origin: WO2018055267A1] The invention relates to an optical guide (1) comprising a core that has a entrance segment (10) that is rectilinear in an entrance direction (E), an exit segment (20) that is rectilinear in an exit direction (S), and a transition segment (30) between the rectilinear entrance segment (10) and the rectilinear exit segment (20). The exit direction is different from the entrance direction so that light propagates between the entrance segment and the exit segment in a propagation direction that has a bend (V) having an interior side (CI) and an exterior side (CE). The transition segment (30) comprises a region (40) with a pseudo-index gradient, this region having an interior edge (BI) on the interior side (CI) of the bend (V) and an exterior edge (BE) on the exterior side (CE) of the bend (V). The region (40) with the pseudo-index gradient comprises trenches formed in the core in order to make a refractive index decrease from the interior edge to the exterior edge.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2018055267A1

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