

Title (en)
GUIDE STRUCTURE FOR TRANSFORMATION OF THE MODE OF PROPAGATION FROM A GAUSSIAN TYPE PROFILE INTO A MODE OF PROPAGATION WITH A WIDEBAND PROFILE

Title (de)
WELLENLEITERSTRUKTUR FÜR DIE TRANSFORMATION EINES GAUSS'SCHEN ÜBERTRAGUNGSMODENPROFILS IN EIN BREITERES ÜBERTRAGUNGSMODENPROFIL

Title (fr)
STRUCTURE GUIDANTE PERMETTANT DE TRANSFORMER UN MODE DE PROPAGATION DE PROFIL DE TYPE GAUSSIEN EN UN MODE DE PROPAGATION DE PROFIL ELARGI

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Application
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Priority
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• FR 0103526 A 20010315

Abstract (en)
[origin: US2002131714A1] The invention proposes a guiding structure capable of transforming a lightwave with at least one central wavelength λ_{mbdi} with a Gaussian type propagation mode profile coming out of the introduction means into a widened type propagation mode profile, this structure comprising: a first guiding part (1), and a second part (2) comprising at least one microguide (3), with one end (5) in the form of a Y, the first and second part and the introduction means are connected to each other such that when the lightwave is introduced into either the first or the second part, it is transformed into the other part into a widened profile for the central wavelength λ_{mbdi} . The invention is applicable to the manufacture of a large number of optical components, and particularly wavelength multiplexers and demultiplexers.

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