

Title (en)

HYBRID OPTICAL AMPLIFIER COMPRISING AN INTEGRATED PUMP FILTER AND A MATRIX OF SUCH AMPLIFIERS

Title (de)

HYBRIDER OPTISCHER VERSTÄRKER MIT EINEM INTEGRIERTEN PUMPENFILTER UND MATRIX SOLCHER VERSTÄRKER

Title (fr)

AMPLIFICATEUR OPTIQUE HYBRIDE COMPORTANT UN FILTRE DE POMPE INTEGRE ET MATRICE DE TELS AMPLIFICATEURS

Publication

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Application

EP 02800166 A 20021001

Priority

- FR 0203336 W 20021001
- FR 0112589 A 20011001

Abstract (en)

[origin: WO03030314A2] The invention relates to a hybrid optical amplifier comprising a support (30) consisting of: at least one first light guide (32) which receives a light wave E with power Pe to be amplified from a first end (35) of the support; a second light guide (34) which receives a first pump wave L from a second end (33) of the support; a first multiplexer (36) which is connected to the first and second light guides and which can transmit waves E and L to a third light guide (37), said third light guide being connected to a third end (39) of the support; a fourth light guide (41) which is connected to (i) a pump wave filter element and (ii) a fifth end (43) of the support which can deliver a wave S with power Ps which is greater than power Pe; and a last light guide which is connected to the fourth end of the support and to the filter element. The inventive hybrid optical amplifier also comprises an amplifier fibre (31) comprising a first end which is connected to the third end of the support and a second end which is connected to the fourth end of the support.

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