

Title (en)

DOPED FIBRE OPTICAL AMPLIFIER FOR 1600 NM BAND

Title (de)

OPTISCHER FASERVERSTÄRKER IM 1600-NM-BAND

Title (fr)

AMPLIFICATEUR OPTIQUE A FIBRE DOPEE POUR LA BANDE A 1600 NM

Publication

EP 1074074 A1 20010207 (FR)

Application

EP 00906409 A 20000217

Priority

- FR 0000391 W 20000217
- FR 9902127 A 19990219

Abstract (en)

[origin: FR2790109A1] An L band doped fiber optical amplifier (8), has a low population inversion doped monomode fiber core (16) with a signal-pumped internal multimode sheath (18). An L band optical amplifier (8) has a doped optical fiber (10) consisting of a monomode core (16) which is doped to induce a mean population inversion rate of less than 50% and which is clad with an internal multimode sheath (18) and an external sheath (20), the pump signal being injected into the internal sheath (18). An Independent claim is also included for an optical transmission system comprising a fiber-optic cable (2), two terminal stations (4, 6) and the above optical amplifier (8). Preferred Features: The mean population inversion rate is 35-45% and the core dopant is erbium (Er).

IPC 1-7

H01S 3/06

IPC 8 full level

H01S 3/094 (2006.01); **H01S 3/067** (2006.01); **H01S 3/16** (2006.01)

CPC (source: EP)

H01S 3/094003 (2013.01); **H01S 3/06708** (2013.01); **H01S 3/1608** (2013.01); **H01S 2301/04** (2013.01); **H01S 2302/00** (2013.01)

Citation (search report)

See references of WO 0049686A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

FR 2790109 A1 20000825; CA 2328766 A1 20000824; EP 1074074 A1 20010207; JP 2002537659 A 20021105; WO 0049686 A1 20000824

DOCDB simple family (application)

FR 9902127 A 19990219; CA 2328766 A 20000217; EP 00906409 A 20000217; FR 0000391 W 20000217; JP 2000600328 A 20000217