

Title (en)

OPTICAL PUMP DEVICE WITH SEVERAL OUTPUT PATHS AND USE OF SAME IN AN AMPLIFIER DEVICE

Title (de)

MEHRKANALIGE OPTISCHEPUMPVORRICHTUNG UND DEREN EINSETZUNG IN EINE VERSTÄRKERVORRICHTUNG

Title (fr)

DISPOSITIF DE POMPE OPTIQUE A PLUSIEURS VOIES DE SORTIE ET UTILISATION DU DISPOSITIF DE POMPE DANS UN DISPOSITIF D'AMPLIFICATION

Publication

**EP 1442508 A2 20040804 (FR)**

Application

**EP 02795360 A 20021104**

Priority

- FR 0203767 W 20021104
- FR 0114260 A 20011105

Abstract (en)

[origin: WO03040765A2] The invention concerns an optical pump device comprising a pump source optically connected to an optical divider including an input path and n output paths, the input path being designed to receive a pump wave derived from the source and the n output paths being designed to supply n pump waves S<sub>1</sub>, ..., S<sub>n</sub>, n being an integer greater than 1. The invention also concerns the use of said pump device in an optical amplification device. The invention is applicable in all fields requiring several optical pumps and more particularly in the field of optical telecommunications and for example for optical amplifiers.

IPC 1-7

**H01S 3/094**

IPC 8 full level

**H01S 3/067** (2006.01); **H01S 3/094** (2006.01); **G02B 6/12** (2006.01); **H01S 3/0941** (2006.01)

CPC (source: EP US)

**H01S 3/06754** (2013.01 - EP US); **H01S 3/094** (2013.01 - EP US); **G02B 2006/1215** (2013.01 - EP US); **H01S 3/094011** (2013.01 - EP US); **H01S 3/0941** (2013.01 - EP US)

Citation (search report)

See references of WO 03040765A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 03040765 A2 20030515**; **WO 03040765 A3 20031204**; CA 2465841 A1 20030515; EP 1442508 A2 20040804; FR 2831999 A1 20030509; US 2005069251 A1 20050331; US 6944376 B2 20050913

DOCDB simple family (application)

**FR 0203767 W 20021104**; CA 2465841 A 20021104; EP 02795360 A 20021104; FR 0114260 A 20011105; US 49432404 A 20040430