

Title (en)
WIDE RIDGE PUMP LASER

Title (de)
BREITSTREIFIGER PUMPLASER

Title (fr)
POMPE LASER A LARGE MOULURE

Publication
EP 1240696 A2 20020918 (EN)

Application
EP 00992925 A 20001213

Priority

- US 0042790 W 20001213
- US 46697399 A 19991220
- US 47769500 A 20000106

Abstract (en)
[origin: WO0147076A2] A laser pump module has a ridge waveguide chip with a ridge width that is greater than 4 micrometers (μm). This is a relatively wide ridge for this class of laser chips. Specifically, especially for signal lasers, narrow ridge widths are used in order to control lateral and transverse mode shape and size. In the present invention, however, where a chip is used for pump applications, a wider ridge is used to increase the laser effective gain volume and decrease the loss associated with the lowest order transverse mode to thus maximize the useful power and light that is coupled into the fiber.

IPC 1-7
H01S 5/022; **G02B 6/42**

IPC 8 full level
G02B 6/42 (2006.01); **H01S 5/22** (2006.01); **G02B 6/30** (2006.01); **H01S 3/0941** (2006.01); **H01S 5/022** (2006.01); **H01S 5/10** (2006.01); **H01S 5/14** (2006.01); **H01S 5/20** (2006.01); **H01S 5/223** (2006.01)

CPC (source: EP)
G02B 6/4203 (2013.01); **H01S 5/22** (2013.01); **G02B 6/30** (2013.01); **G02B 6/4204** (2013.01); **H01S 3/09415** (2013.01); **H01S 5/02216** (2013.01); **H01S 5/02251** (2021.01); **H01S 5/0267** (2013.01); **H01S 5/0655** (2013.01); **H01S 5/1064** (2013.01); **H01S 5/147** (2013.01); **H01S 5/2231** (2013.01)

Citation (search report)
See references of WO 0147076A2

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 0147076 A2 20010628; **WO 0147076 A3 20020321**; AU 4718101 A 20010703; CA 2395009 A1 20010628; CN 1411622 A 20030416; EP 1240696 A2 20020918; JP 2003518758 A 20030610

DOCDB simple family (application)
US 0042790 W 20001213; AU 4718101 A 20001213; CA 2395009 A 20001213; CN 00817446 A 20001213; EP 00992925 A 20001213; JP 2001547705 A 20001213