

Title (en)

FIBER LASER PUMPING CONFIGURATION AND METHOD

Title (de)

FASERLASERPUMPENKONFIGURATION UND VERFAHREN DAFÜR

Title (fr)

CONFIGURATION ET PROCÉDÉ DE POMPAGE DE LASER À FIBRES

Publication

EP 2599170 A4 20171220 (EN)

Application

EP 11811925 A 20110623

Priority

- US 34446710 P 20100730
- IL 2011000502 W 20110623

Abstract (en)

[origin: WO2012014191A1] The invention is an apparatus and method for free space pumping of active double-clad fiber based lasers and amplifiers. The apparatus comprises a laser emitting a signal laser beam; an active double-clad fiber having a core defining an optical axis of the apparatus and a pump cladding defining a cone of numerical aperture; an optical arrangement directing the signal laser beam along the optical axis through the core of the active double-clad fiber; at least one pump source emitting a pump beam; at least one delivery means coupling the pump beam to the pump cladding of the active double-clad fiber; and an optical arrangement coupling the amplified signal laser beam exiting the active double-clad fiber out of the apparatus.

IPC 8 full level

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CPC (source: EP)

H01S 3/094007 (2013.01); **H01S 3/094011** (2013.01); **H01S 3/094053** (2013.01)

Citation (search report)

- [XAY] US 6438294 B1 20020820 - LAUZON JOCELYN [CA], et al
- [Y] US 2008267228 A1 20081030 - SACKS ZACHARY [IL], et al
- See references of WO 2012014191A1

Designated contracting state (EPC)

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