

Title (en)

LASER PUMP ARRANGEMENT AND LASER PUMP METHOD WITH BEAM HOMOGENIZATION

Title (de)

LASERPUMPANORDNUNG UND LASERPUMPVERFAHREN MIT STRAHLHOMOGENISIERUNG

Title (fr)

ARRANGEMENT DE POMPAGE LASER ET PROCÉDÉ DE POMPAGE LASER AVEC HOMOGÉNÉISATION DU RAYON

Publication

EP 2359444 A1 20110824 (DE)

Application

EP 09744705 A 20091106

Priority

- EP 2009064761 W 20091106
- EP 08168736 A 20081110
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Abstract (en)

[origin: EP2184818A1] The arrangement has an optical coupling unit (2) provided between a laser-pump source (1) and a homogenizer (3). The optical coupling unit is designed such that partial pump radiations are projected or focused directly on or in a laser radiation-amplifying laser medium (4) in a projection direction perpendicular to a through-mixing direction (DA). The homogenizer and the laser medium are designed such that a pump beam emergent from the homogenizer are directly guided on or into the laser medium under beam spread angle preservation for the through-mixing direction. Independent claims are also included for the following: (1) a laser system comprising a resonator for amplifying laser radiation (2) a laser pump method for generating elliptical pump geometry for a laser radiation-amplifying laser medium.

IPC 8 full level

H01S 3/0941 (2006.01); **G02B 27/09** (2006.01); **H01S 3/06** (2006.01)

CPC (source: EP US)

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Citation (search report)

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