

Title (en)
LASER SOURCE FOR LIDAR APPLICATION

Title (de)
LASERQUELLE FÜR LIDAR-ANWENDUNG

Title (fr)
SOURCE LASER POUR APPLICATION LIDAR

Publication
EP 2021827 A1 20090211 (FR)

Application
EP 07729531 A 20070525

Priority
• EP 2007055104 W 20070525
• FR 0604811 A 20060530

Abstract (en)
[origin: WO2007138013A1] This application concerns a laser source comprising a principal self-adaptive laser cavity comprising at least a principal gain medium (MA1) set about a principal direction and several mirror (HR) permitting the creation of a gain hologram in the center of the above mentioned principal gain medium by interference of a first optical wave (A1) set about the principal direction and a second optical wave (A3) set about a direction different from the principal direction, the waves being generated by the principal gain medium whose main feature is that it comprises a secondary laser source (SLs) delivering photons at a frequency which these impose on the principal cavity as well as the means for inserting the said photons in the center of the cavity of the principal laser.

IPC 8 full level
G01S 17/88 (2006.01); **H01S 3/083** (2006.01); **H01S 3/098** (2006.01)

CPC (source: EP US)
G01S 7/4814 (2013.01 - EP US); **H01S 3/10092** (2013.01 - EP US); **H01S 3/0064** (2013.01 - EP US); **H01S 3/07** (2013.01 - EP US);
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Designated extension state (EPC)
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FR 2901923 A1 20071207; **FR 2901923 B1 20091120**; EP 2021827 A1 20090211; US 2010034222 A1 20100211; WO 2007138013 A1 20071206

DOCDB simple family (application)
FR 0604811 A 20060530; EP 07729531 A 20070525; EP 2007055104 W 20070525; US 30106307 A 20070525