

Title (en)
PULSED UV AND VISIBLE RAMAN LASER SYSTEMS

Title (de)
LASERSYSTEME MIT GEPULSTEM UV UND SICHTBAREM RAMAN

Title (fr)
SYSTEMES PULSES DE LASER RAMAN DANS L'ULTRAVIOLET ET LA LUMIERE VISIBLE

Publication
EP 2013951 A2 20090114 (EN)

Application
EP 07776322 A 20070426

Priority

- US 2007010208 W 20070426
- US 79591506 P 20060428
- US 81052006 P 20060602

Abstract (en)
[origin: WO2007127356A2] A laser system comprising: (i) a pulsed light source generating a pulsed light having an optical spectrum centered at a source wavelength; (ii) a Raman conversion fiber coupled to the pulsed light source, wherein the pulsed light traverses the nonlinear Raman conversion fiber and is converted by a cascaded Stimulated Raman Scattering process into a first pulsed light output corresponding to last Stokes order and having an optical spectrum centered at a first output wavelength which is longer than the source wavelength; and (iii) a harmonic generator operatively coupled to said a Raman conversion fiber to accept the first pulsed light output order and to convert it to longer optical frequency such that said harmonic generator producing light output in the final output wavelength situated in the 150-775 nm range.

IPC 8 full level
H01S 3/00 (2006.01); **H01S 3/067** (2006.01); **H01S 3/0941** (2006.01); **H01S 3/10** (2006.01); **H01S 3/16** (2006.01); **H01S 3/23** (2006.01); **H01S 3/30** (2006.01)

CPC (source: EP)
H01S 3/302 (2013.01); **H01S 3/005** (2013.01); **H01S 3/06758** (2013.01); **H01S 3/09415** (2013.01); **H01S 3/10015** (2013.01); **H01S 3/10092** (2013.01); **H01S 3/1618** (2013.01); **H01S 3/2375** (2013.01); **H01S 3/2383** (2013.01)

Cited by
GB2505409A; GB2505409B; US9608399B2; US8929406B2; US9935421B2; US10439355B2; US9804101B2; US10495582B2; US9042006B2; US10175555B2; US10429719B2; US9748729B2; US10199149B2

Designated contracting state (EPC)
DE FR GB

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007127356 A2 20071108; WO 2007127356 A3 20090212; EP 2013951 A2 20090114; EP 2013951 A4 20110803; JP 2009535666 A 20091001; JP 5269764 B2 20130821

DOCDB simple family (application)
US 2007010208 W 20070426; EP 07776322 A 20070426; JP 2009507817 A 20070426