

Title (en)

METHOD AND DEVICE FOR GENERATING LASER PULSES

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ERZEUGEN VON LASERPULSEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE GÉNÉRATION D'IMPULSIONS LASER

Publication

EP 3954005 A1 20220216 (DE)

Application

EP 20710870 A 20200306

Priority

- DE 102019205285 A 20190412
- EP 2020055996 W 20200306

Abstract (en)

[origin: WO2020207676A1] The invention relates to a method for generating laser pulses (3a, 3b) by changing the quality of a resonator (4), having the step of: generating laser pulses (3a, 3b) by actuating an optical modulator (10) using a control signal (S) in order to switch over between a first operating state (B1) of the optical modulator (10) for generating a first quality of the resonator (4) and a second operating state (B2) of the optical modulator (10) for generating a second quality of the resonator (4). In order to generate a sequence (2) of laser pulses (3a, 3b) in which first laser pulses (3a) alternate with second laser pulses (3b) differing from the first laser pulses, the optical modulator (10) is actuated in a respectively alternating manner by the control signal (S) in order to generate a respective first laser pulse (3a) and a respective second laser pulse (3b). The invention also relates to a corresponding device (1) for generating laser pulses (3a, 3b).

IPC 8 full level

H01S 3/10 (2006.01); **H01S 3/00** (2006.01); **H01S 3/06** (2006.01); **H01S 3/08** (2006.01); **H01S 3/081** (2006.01); **H01S 3/106** (2006.01); **H01S 3/107** (2006.01); **H01S 3/109** (2006.01); **H01S 3/11** (2006.01); **H01S 3/115** (2006.01); **H01S 3/117** (2006.01); **H01S 3/136** (2006.01)

CPC (source: EP KR US)

H01S 3/0085 (2013.01 - KR US); **H01S 3/0604** (2013.01 - KR); **H01S 3/08054** (2013.01 - KR); **H01S 3/08059** (2013.01 - KR); **H01S 3/0813** (2013.01 - KR US); **H01S 3/09** (2013.01 - KR); **H01S 3/10038** (2013.01 - EP KR); **H01S 3/10046** (2013.01 - KR); **H01S 3/1075** (2013.01 - EP KR); **H01S 3/1103** (2013.01 - EP KR US); **H01S 3/115** (2013.01 - KR); **H01S 3/136** (2013.01 - EP KR); **H01S 3/0085** (2013.01 - EP); **H01S 3/0604** (2013.01 - EP); **H01S 3/08054** (2013.01 - EP); **H01S 3/08059** (2013.01 - EP); **H01S 3/0813** (2013.01 - EP); **H01S 3/10046** (2013.01 - EP); **H01S 3/109** (2013.01 - EP); **H01S 3/115** (2013.01 - EP); **H01S 2301/02** (2013.01 - EP KR)

Citation (search report)

See references of WO 2020207676A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020207676 A1 20201015; CN 113678329 A 20211119; DE 102019205285 A1 20201015; EP 3954005 A1 20220216; KR 102541235 B1 20230608; KR 20210142185 A 20211124; US 2022029374 A1 20220127

DOCDB simple family (application)

EP 2020055996 W 20200306; CN 202080028208 A 20200306; DE 102019205285 A 20190412; EP 20710870 A 20200306; KR 20217034939 A 20200306; US 202117497990 A 20211011