

Title (en)

METHOD AND APPARATUS FOR USE IN PASSIVE Q-SWITCHING

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERWENDUNG IN EINER PASSIVEN Q-SCHALTUNG

Title (fr)

PROCÉDÉ ET APPAREIL UTILISABLE DANS LA COMMUTATION DU FACTEUR DE QUALITÉ PASSIVE

Publication

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Application

EP 12810412 A 20121212

Priority

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Abstract (en)

[origin: GB2497549A] A method for use in controlling a passively Q-switched laser apparatus 120 comprising: triggering pumping of a passively Q-switched laser apparatus 120 at a pump trigger time, measuring an emission delay between the pump trigger time and a time of emission of a Q-switched optical pulse from the laser apparatus 120; using the measured emission delay and a target time for the emission of a further Q-switched optical pulse from the laser apparatus to determine a further pump trigger time. The method may be used for improving the timing of emission of Q switched optical pulses and may, in particular, serve to suppress pulse-to-pulse timing jitter in particular, though not exclusively, for laser target designation. Also disclosed are a controller 140 and a programmable controller 140, in communication with an optical detector 144 and the pump 130 (via pump driver 132) for performing the above method. Further disclosed is a passively Q-switched laser apparatus comprising: a pump 130 for pumping a passively Q-switched laser apparatus 120; an optical detector 144 and a controller 140, where the controller performs the above method.

IPC 8 full level

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