

Title (en)  
SOLID-STATE LASER SOURCE

Title (de)  
FESTKÖRPERLASERQUELLE

Title (fr)  
SOURCE LASER A SOLIDE

Publication  
**EP 3701602 A1 20200902 (FR)**

Application  
**EP 18796599 A 20181018**

Priority  
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Abstract (en)  
[origin: WO2019081334A1] The present invention relates to a pulsed solid-state laser source (1), comprising a first resonator (R1) formed by a first reflecting mirror (2) and a partially reflecting output mirror (3), and a laser module (4) placed between the mirrors (2, 3) of the first resonator (R1). The first resonator (R1) comprises a laser rod of solid gain material suitable for generating a laser beam, and a laser pump source suitable for emitting a pump beam into the laser rod, wherein the laser rod is suitable for amplifying the pump beam to generate the laser beam, and the output mirror (3) is suitable for partially transmitting the laser beam. The laser source (1) further comprises: a variable attenuating device (QS) that can switch between an opaque state and a transparent state for the laser beam to enable the laser source (1) to operate in a triggered mode, said device (QS) being placed between the laser module (4) and the reflecting mirror (2); a linearly polarising element arranged between the variable attenuating device (QS) and the laser module (4); and a phase-retarding element (8) arranged between the output mirror (3) and the laser module (4).

IPC 8 full level  
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Citation (search report)  
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