

Title (en)

LASER AMPLIFIER SYSTEM HAVING A TWO-STAGE COMPRESSOR SYSTEM

Title (de)

LASERVERSTÄRKERSYSTEM MIT ZWEISTUFIGEM KOMPRESSORSYSTEM

Title (fr)

SYSTÈME AMPLIFICATEUR DE LASER COMPRENANT UN SYSTÈME COMPRESSEUR À DEUX ÉTAGES

Publication

EP 3607621 A1 20200212 (DE)

Application

EP 18715599 A 20180328

Priority

- DE 102017107358 A 20170405
- EP 2018057928 W 20180328

Abstract (en)

[origin: WO2018184943A1] A laser amplifier system (1) having a two-stage compressor system for outputting output laser pulses (13A) by amplifying initial laser pulses (5A) comprises a fibre laser preamplifier unit (7) for preamplifying the initial laser pulses (5A) and for outputting preamplified laser pulses (7A), an intermediate compressor stage (9) for temporally partially compressing the preamplified laser pulses (7A), a solid-state post-amplifier unit (11) for post-amplifying temporally partially compressed preamplified laser pulses (9A) and for outputting post-amplified laser pulses (11A), and a post-compressor stage (13) for temporally compressing the post-amplified laser pulses (11A) for the purpose of generating the output laser pulses (13A).

IPC 8 full level

H01S 3/00 (2006.01); **H01S 3/067** (2006.01); **H01S 3/23** (2006.01)

CPC (source: EP US)

H01S 3/0057 (2013.01 - EP US); **H01S 3/025** (2013.01 - US); **H01S 3/06754** (2013.01 - US); **H01S 3/2316** (2013.01 - EP US); **H01S 3/06758** (2013.01 - EP); **H01S 3/2375** (2013.01 - EP US)

Citation (search report)

See references of WO 2018184943A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 2018057928 W 20180328; CN 201880023708 A 20180328; DE 102017107358 A 20170405; EP 18715599 A 20180328; US 201916590774 A 20191002