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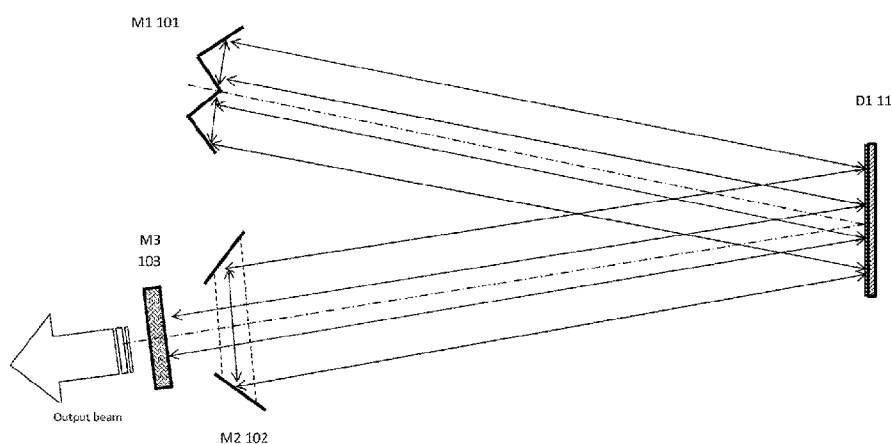
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FIG. 3

(57) Abstract: An optical configuration including axiconical elements that serve as parts of a resonator or an optical chain of an amplifier for an active laser volume with a large transverse dimension. The system may include a single-fold or multiple-folds axiconical elements. One of the system's advantages is providing the means to produce, even with a stable resonator, a high- quality and well-controlled beam, utilizing efficiently a wide active laser medium.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G01N 15/14; H01S 3/06 (2019.01)

CPC - G01N 15/1436; G01N 2015/1438; H01S 3/0401; H01S 3/0402; H01S 3/042; H01S 3/0608; H01S 3/061; H01S 3/063

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

See Search History Document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

See Search History Document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

See Search History Document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,598,408 A (O'KEEFE) 01 July 1986 (01.07.1986), entire document, especially; col 1, ln 7-9, col 5, ln 23-45, col 5, ln 65 to col 6, ln 17	1-25
A	US 5,638,396 A (KLIMEK) 10 June 1997 (10.06.1997), entire document, especially; col 2, ln 36-47, col 7, ln 58 to col 8, ln 5, col 8, ln 66 to col 9, ln 13	1-25
A	US 2010/0309566 A1 (DEWITT et al.) 09 December 2010 (09.12.2010), entire document	1-25
A	US 5,604,592 A (KOTIDIS et al.) 18 February 1997 (18.02.1997), entire document	1-25

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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