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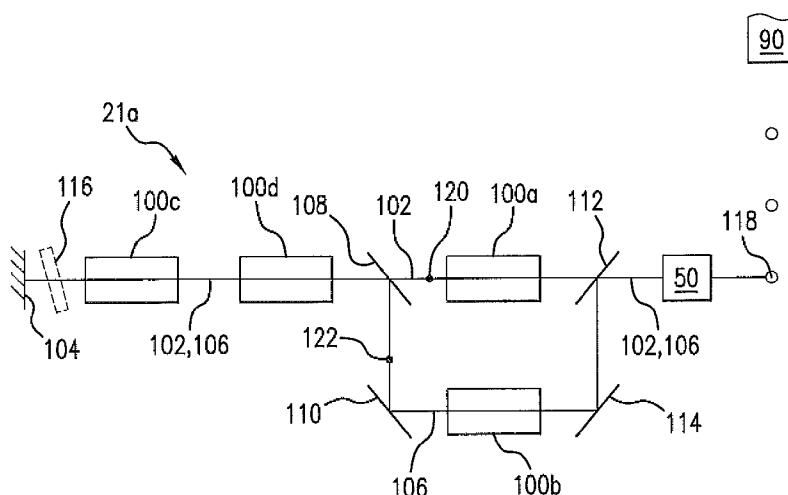
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(54) Title: DRIVE LASER DELIVERY SYSTEMS FOR EUV LIGHT SOURCE



**FIG. 4**

(57) Abstract: An EUV light source is disclosed herein which may comprise a droplet generator producing a stream of target material droplets, a first optical gain medium amplifying light on a first beam path without a seed laser providing a seed laser output to the first beam path, a second optical gain medium amplifying light on a second beam path without a seed laser providing a seed laser output to the second beam path, and a beam combiner combining light from the first beam path and the second beam path for interaction with a target material droplet to produce EUV light emitting plasma.



INTERNATIONAL SEARCH REPORT

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<p>A. CLASSIFICATION OF SUBJECT MATTER                  IPC(8) - A61N 5/06 (2012.01)                  USPC - 250/504R                  According to International Patent Classification (IPC) or to both national classification and IPC</p>																																														
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols)                  IPC(8) - A61N 5/06; H01S 3/10, 3/22 (2012.01)                  USPC - 250/504R; 372/25, 55</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)                  Patbase, Orbit.com, Proquest, GooglePatents</p>																																														
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DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 2008/0149862 A1 (HANSSON et al) 26 June 2008 (26.06.2008) entire document</td> <td>1-20</td> </tr> <tr> <td>Y</td> <td>US 2008/0087847 A1 (BYKANOV et al) 17 April 2008 (17.04.2008) entire document</td> <td>1-11</td> </tr> <tr> <td>Y</td> <td>US 7,443,903 B2 (LEONARDO et al) 28 October 2008 (28.10.2008) entire document</td> <td>12-20</td> </tr> <tr> <td>Y</td> <td>US 2010/0025231 A1 (MORIYA et al) 04 February 2010 (04.02.2010) entire document</td> <td>4, 8</td> </tr> <tr> <td>Y</td> <td>US 2010/0193710 A1 (WAKABAYASHI et al) 05 August 2010 (05.08.2010) entire document</td> <td>6-7</td> </tr> <tr> <td>Y</td> <td>US 2004/0184491 A1 (WAI et al) 23 September 2004 (23.09.2004) entire document</td> <td>9-10, 14-15, 19</td> </tr> <tr> <td>Y</td> <td>US 2010/0140512 A1 (SUGANUMA et al) 10 June 2010 (10.06.2010) entire document</td> <td>8</td> </tr> <tr> <td>A</td> <td>US 2009/0154642 A1 (BYKANOV et al) 18 June 2009 (18.06.2009) entire document</td> <td>1-20</td> </tr> <tr> <td>A</td> <td>US 2010/0220756 A1 (KRZYSZTOF et al) 02 September 2010 (02.09.2010) entire document</td> <td>1-20</td> </tr> </tbody> </table> <p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/></p> <p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table> <table border="1"> <tr> <td>Date of the actual completion of the international search 11 June 2012</td> <td>Date of mailing of the international search report <b>20 JUN 2012</b></td> </tr> <tr> <td>Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201</td> <td>Authorized officer: Blaine R. 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