Title: WAVELENGTH AND POWER SCALABLE WAVEGUIDING-BASED INFRARED LASER SYSTEM

Abstract: An infrared laser source system that combines laser emitters through an optical waveguide. Each emitter is coupled to a port of the optical waveguide and the waveguided signal is combined to provide a spatially combined laser source with a single common exit aperture. The materials used for waveguiding allow the propagation of wavelengths in the infrared. The system can be used for combining multiple laser emitters to increase the total output power and/or for combination of multiple emitters with different wavelengths for increased spectral coverage out of the laser system.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

- IPC(B) - G02B 6/26 (2013.01)
- USPC - 385/43

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)
- IPC(B) - G02B 6/26, 6/42, 6/28 (2013.01)
- USPC - 385/16, 17, 18, 19, 24, 25, 28, 43

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
- CPC - G02B 6/2835, 6/1228, 6/3546 (2013.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
- Orbit, Google Patents, ProQuest

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<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>
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<td>X</td>
<td>US 20110002585 A1 (GIBSON et al) 06 January 2011 (06.01.2011) entire document</td>
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<td>A</td>
<td>US 2006/0002654 A1 (JAMES et al) 05 January 2006 (05.01.2006) entire document</td>
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Further documents are listed in the continuation of Box C.

* Special categories of cited documents:
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- O document referring to an oral disclosure, use, exhibition or other means
- P document published prior to the international filing date but later than the priority date claimed

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

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Date of the actual completion of the international search
12 December 2013

Date of mailing of the international search report
20 DEC 2013

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Form PCT/ISA/210 (second sheet) (July 2009)