



## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2011/063351

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G02B 6/02 (2012.01)

USPC - 385/127

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(8) - G02B 6/00, 6/02, 6/36 (2012.01)

USPC - 385/28, 123, 126, 127, 144

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

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

PatBase, Google Patent Search, Google Scholar

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages       | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------------|-----------------------|
| Y         | US 2009/0059353 A1 (FINI) 05 March 2009 (05.03.2009) entire document                     | 1-42                  |
| Y         | US 7,676,129 B1 (BOOKBINDER et al) 09 March 2010 (09.03.2010) entire document            | 1-42                  |
| Y         | US 2010/0008664 A1 (RAMACHANDRAN et al) 14 January 2010 (14.01.2010) entire document     | 5, 21, 33, 36-41      |
| Y         | US 2006/0140561 A1 (JETTEN et al) 29 June 2006 (29.06.2006) entire document              | 6, 24, 29-41          |
| Y         | US 6,137,936 A (FITZ et al) 24 October 2000 (24.10.2000) entire document                 | 7, 36-41              |
| Y         | CN 101634728 A (ZHANG) 27 January 2010 (27.01.2010) entire document                      | 13-15, 36-41          |
| Y         | US 2009/0279835 A1 (DE MONTMORILLON et al) 12 November 2009 (12.11.2009) entire document | 40                    |
| A         | US 2009/0290841 A1 (BOREL et al) 26 November 2009 (26.11.2009) entire document           | 1-42                  |

☐ Further documents are listed in the continuation of Box C.


## \* Special categories of cited documents:

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"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

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Date of the actual completion of the international search

23 March 2012

Date of mailing of the international search report

29 MAR 2012

Name and mailing address of the ISA/US

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