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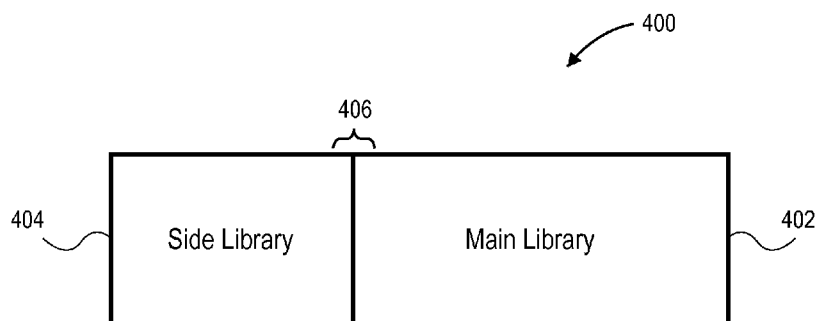
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(54) Title: WIDE PROCESS RANGE LIBRARY FOR METROLOGY

**FIG. 4A**

(57) **Abstract:** Methods of generating wide process range libraries for metrology are described. For example, a method includes generating a first library having a first process range for a first parameter. A second library is generated having a second process range for the first parameter. The second process range is overlapping with the first process range. The second library is stitched to the first library to generate a third library having a third process range for the first parameter. The third process range is wider than each of the first and second process ranges.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/024477**A. CLASSIFICATION OF SUBJECT MATTER*****H01L 21/00(2006.01)i***

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)

H01L 21/00; H01L 21/027; G03F 7/26; G06F 15/00; G01B 11/24; G02B 5/18; G01N 21/88; G01N 21/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: "light, metrology, library, grating"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2004-509341 A (TIMBRE TECHNOLOGIES, INC.) 25 March 2004 See pages 1-32; figures 1-11; claims 1-65.	1-26
A	JP 2005-217161 A (TOSHIBA CO., LTD.) 11 August 2005 See paragraphs [0061]-[0066]; figure 14.	1-26
A	JP 11-311508 A (HITACHI LTD.) 09 November 1999 See abstract; claim 4; figure 1.	1-26
A	US 2005-0004778 A1 (SENTOKU KOICHI et al.) 06 January 2005 See abstract; claim 1; figure 3.	1-26

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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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