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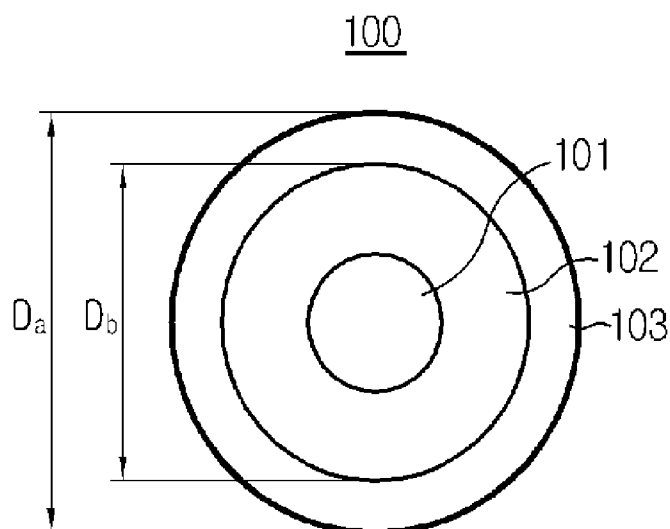
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(54) Title: BEND-INSENSITIVE OPTICAL FIBER HAVING SMALL COATING DIAMETER AND OPTICAL CABLE COMPRISING THE SAME

[Fig. 2]



(57) Abstract: Provided is a bend-insensitive optical fiber including a core centered at the optical fiber, a cladding surrounding the core and having a lower refractive index than the core, a coating layer surrounding the cladding, and a region formed in the cladding and having a lower refractive index than the cladding, wherein the coating layer has a multilayered structure and a total outer diameter of 240 μm or less, and a bend-insensitive optical cable comprising the same.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2012/001104**A. CLASSIFICATION OF SUBJECT MATTER****G02B 6/028(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)

G02B 6/028; G02B 6/02

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:bending loss, primary coating, trench

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 7076139 B1 (AIKAWA et al.) 11 July 2006 See abstract, figure 1, column 4	1-15
Y	JU, S. et al., Effect of low-index trench width on bending loss of bend-insensitive optical fiber, PHOTONICS 2010, IIT Guwahati, India, 11-15 December 2010 See abstract, figures 1, 3-4	1-15
A	KUNIHARU, H. et al., Low-bending-loss single-mode fibers for fiber-to-the-home, JOURNAL of LIGHTWAVE TECHNOLOGY, Vol. 23, No. 11, pp. 3494-3499, November 2005 See abstract, figure 3, table 1	1-15



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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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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