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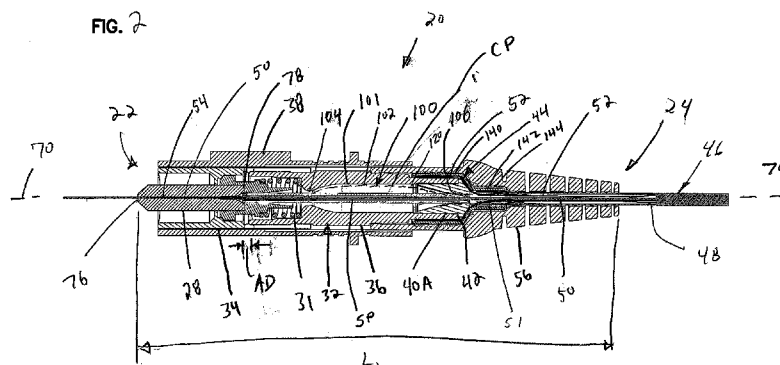
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(54) Title: FIBER OPTIC CONNECTOR



(57) **Abstract:** The present disclosure relates to a fiber optic connector and cable assembly. The fiber optic connector includes a ferrule assembly having a ferrule, a ferrule hub and a ferrule spring. The ferrule has a distal end face that is accessible at a distal end of the connector housing. The ferrule is movable in a proximal direction relative to the connector housing from a distal position to a proximal position. The distal and proximal positions are separated by an axial displacement distance. The proximal movement of the ferrule is against the bias of the ferrule spring. The fiber optic cable of the assembly includes an optical fiber contained within a cable jacket. The fiber optic cable also includes a strength layer positioned between the optical fiber and the cable jacket. The strength layer is anchored to the connector housing. The optical fiber extends through a fiber passage of the fiber optic connector from the proximal end of the connector housing to the ferrule. The optical fiber has a distal portion potted within the ferrule. The fiber passage has a fiber take-up region through which the optical fiber extends. The fiber take-up region is configured to take-up an excess length of the optical fiber that corresponds to the axial displacement distance of the ferrule.



A. CLASSIFICATION OF SUBJECT MATTER**G02B 6/38(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 6/38; B23P 11/00; B29D 11/00; G02B 6/36; G02B 6/10

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: fiber optic connector, ferrule

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2011-0002586 A1 (NHEP PONHARITH) 06 January 2011 See abstract, paragraphs [0043], [0047]-[0048], [0050]-[0057] and figure 5.	1-35
A	JP 2009-192908 A (NIPPON TELEGR & TELEPH CORP <NTT> et al.) 27 August 2009 See abstract, paragraphs [0022]-[0024], [0027]-[0028] and figures 10-14.	1-35
A	US 2009-0310919 A1 (ARAI NORIMASA et al.) 17 December 2009 See abstract, paragraphs [0063], [0068], [0072]-[0077] and figures 1-3.	1-35
A	US 2003-0031447 A1 (PATRICK JUDE NAULT) 13 February 2003 See abstract, paragraphs [0022], [0027]-[0028], [0036] and figures 2-4,7.	1-35



Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

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