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(54) Title: MULTI-FIBER FERRULE WITH A LENS PLATE

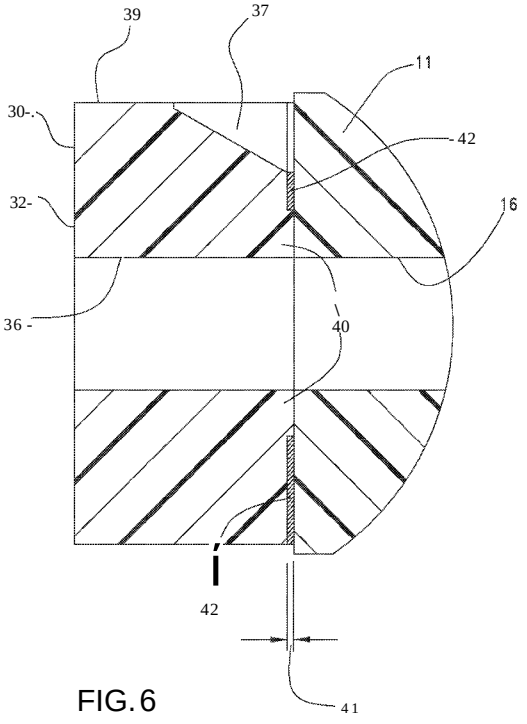


FIG. 6

(57) Abstract: An optical fiber assembly includes a ferrule body with a plurality of optical fibers and an end of each optical fiber positioned adjacent the front face of the ferrule body. A beam-expanding element is positioned adjacent the front face of the ferrule body including a lens array aligned with the optical fibers. The lens array is spaced from the optical fibers by a predetermined distance to form a gap with an index-matched medium within the gap. A method of manufacturing the optical fiber assembly is also provided.

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

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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: ferrule, fiber, seal, resin, lens

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006-108024 A1 (MOLEX INCORPORATED) 12 October 2006 See pages 4-6, claims 1-7, 17-20 and figures 1, 5.	1-20
A	US 7510337 B2 (TAKEDA et al.) 31 March 2009 See column 7, line 48-column 8, line 63, column 10, lines 1-6 and figures 2-6.	1-20
A	US 2003-0113077 A1 (XU et al.) 19 June 2003 See abstract, paragraphs [0021], [0027] and figures 1, 10.	1-20
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A	KR 10-2008-0088723 A (KOREA OPTRON CORP.) 06 October 2008 See abstract, paragraphs [0077]-[0086], claims 1, 5 and figures 3, 8.	1-20

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

☒ See patent family annex.

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