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ning of each regular issue of the PCT Gazette.*

(54) Title: ELECTRICAL/SIGNAL CABLE HAVING IMPROVED COMPOSITE CABLE JACKET, SHIELD TERMINAL AND GROMMET

(57) Abstract: A cable management assembly (300) for carrying electrical signals having a cord reel (302), a fixed length of cable (206) extending from the reel and terminating in a cable connector (200), a retractable length of the cable (1) on the cord reel (302) terminating in a grommet assembly (50) that clamps into a terminal (150). The terminal reel has at least one conductor, an inner jacket, a fiber braid layer, and a pressure extruded elastomer layer which passes through the fiber braid layer to bond to the inner layer jacket, thereby retainin cable flexibility and focusing mechanical load on the fiber reenforced cover layers. The grommet assembly has a cable with an exposed shield layer placed over the exposed shield, a conducting sleeve palced over the supplemental layer and an elastomeric grommet molded over the sleeve. A distal end of the sleeve is exposed such that it may be received in a terminal having two clamp halves for 360o electrical contact with the exposed distal end of the sleeve. A cable assembly, having a back shell, has a plurality of passages, with a cable passing through each of the passages. A unitary conducting shield covers both cables (206, 207) and is compressed to the back shell.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : Please See Extra Sheet.

US CL : 174/75C, 74A, 82, 89, 88C, 93; 439/607, 608, 610, 585

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)

U.S. : 174/75C, 74A, 82, 89, 88C, 93; 439/607, 608, 610, 585

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONEElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,675,475 A (BORTNER et al.) 23 June 1987, (23/06/87) abstract and cols 1-6, figures 1-2	1-20
Y	US 4,773,879 A (PAUZA) 27 September 1988, (27/09/88) abstract and cols 1-7, figures 1-12	4-12
A	US 3,598,895 A (GARLAND) 06 April 1970, (06/04/70) cols 1-6, figures 1-2	1-20
A	US 4,816,641 A (IVERSON) 11 June 1974, (11/06/74) col 1-8, figures 1-6	1-20
A	US 3,349,163 A (ROCTON) 16 April 1965, (16/04/65) col 1-6, figures 1-2	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier document published on or after the international filing date	"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
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

NEW ABSTRACT

A cable management assembly (300) for carrying electrical signals having a cord reel (302), a fixed length of cable (206) extending from the reel and terminating in a cable connector (200), a retractable length of the cable (1) on the cord reel (302) terminating in a grommet assembly (50) that clamps into a terminal (150). The terminal reel has at least one conductor, an inner jacket, a fiber braid layer, and a pressure extruded elastomer layer which passes through the fiber braid layer to bond to the inner layer jacket, thereby retainin cable flexibility and focusing mechanical load on the fiber reenforced cover layers. The grommet assembly has a cable with an exposed shield layer placed over the exposed shield, a conducting sleeve palced over the supplemental layer and an elastomeric grommet molded over the sleeve. A distal end of the sleeve is exposed such that it may be received in a terminal having two clamp halves for 360o electrical contact with the exposed distal end of the sleeve. A cable assembly, having a back shell, has a plurality of passages, with a cable passing through each of the passages. A unitary conducting shield covers both cables (206, 207) and is compressed to the back shell.