



New connection on: : 28-06-2018 : 04:00:57 - Last disconnection on: : 28-06-2018 : 04:00:37

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 23] cable and optical and fiber and electrical and housing and hinge

Results in EPODOC 0

[SS 24] cable and optical and fiber and electrical

Results in EPODOC 1.939

[SS 25] 24 and housing

Results in EPODOC 213

[SS 26] 25 and pigtail

Results in EPODOC 1

[SS 27] 24 and pigtail

Results in EPODOC 8

[SS 28] ..v

[EPODOC: SS 28] ..li



1/8 © EPODOC / EPO

PN - [US2018011257](#) A1 20180111

PR - US201615546556
20160126; US201562107879P
20150126; WO2016US14958
20160126

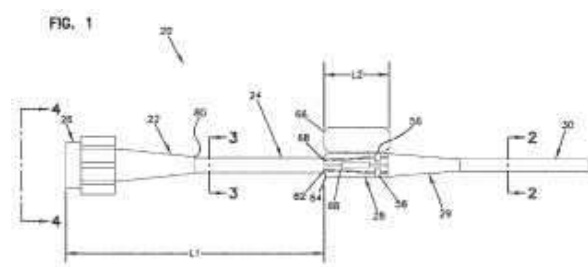
AP - US201615546556 20160126

DT - **

CCI - [G02B6/3817](#) ; [G02B6/3885](#)

CUI - [G02B6/4285](#) ; [G02B6/3846](#) ;
[G02B6/4293](#) ; [H01R4/021](#) ;
[H01R4/24](#) ; [H01R13/502](#) ;
[H01R13/5205](#) ; [H01R13/5216](#) ;
[H01R13/5221](#) ; [H01R13/625](#) ;
[H01R24/20](#) ; [H01R24/28](#)

PA - COMMScope TECHNOLOGIES LLC

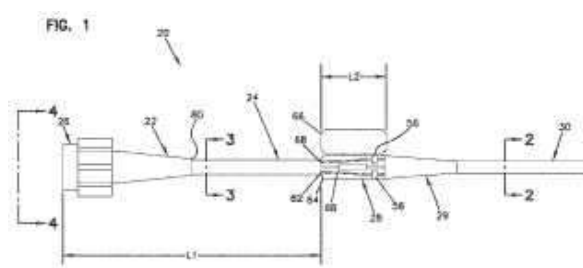


[US]

- TI - HYBRID CONNECTION SYSTEM
USING FACTORY
CONNECTORIZED **PIGTAIL**
- AB - A hybrid **optical** and **electrical**
connection system includes a
connectorized **pigtail** and a
closure. The connectorized **pigtail**
includes: a) a stub **cable**
including a jacket containing at
least one **optical fiber** and at least
two **electrical** conductors, the
stub **cable** having opposite first
and second ends; and b) a
hybrid **optical** and **electrical**
connector that is factory
terminated at the first end of the
stub **cable**. The closure mounts at
the second end of the stub **cable**
for enclosing **optical**
and **electrical** connections
between the second end of the
stub **cable** and a field **cable**.

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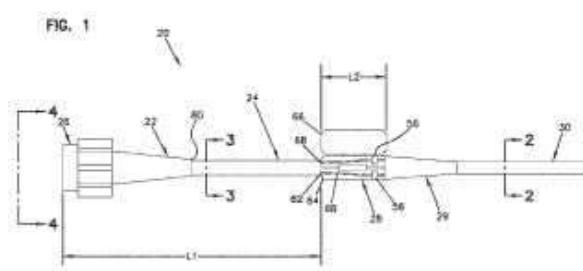
- PN - [AU2016211698](#) A1 20170803
- PR - US201562107879P
20150126; WO2016US14958
20160126
- AP - AU20160211698 20160126
- DT - I
- CCI - [G02B6/3817](#) ; [G02B6/3885](#)
- CUI - [G02B6/4285](#) ; [G02B6/3846](#) ;
[G02B6/4293](#) ; [H01R4/021](#) ;
[H01R4/24](#) ; [H01R13/502](#) ;
[H01R13/5205](#) ; [H01R13/5216](#) ;
[H01R13/5221](#) ; [H01R13/625](#) ;
[H01R24/20](#) ; [H01R24/28](#)
- PA - COMMSCOPE TECHNOLOGIES LLC
- TI - Hybrid connection system using
factory connectorized **pigtail**
- AB - A hybrid **optical** and **electrical**
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includes: a) a stub **cable**
including a jacket containing at
least one **optical fiber** and at least
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connector that is factory terminated at the first end of the stub **cable**. The closure mounts at the second end of the stub **cable** for enclosing **optical** and **electrical** connections between the second end of the stub **cable** and a field **cable**.

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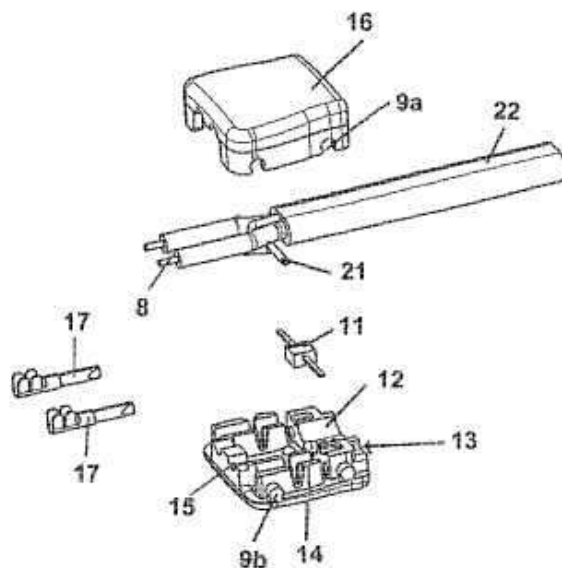
- PN - [WO2016123127](#) A1 20160804
- PR - US201562107879P 20150126
- AP - WO2016US14958 20160126
- DT - *; Rep
- CT - |KR| ISR (A1)
[US2012177328](#) A1 20120712
 [Y] (MARCOUILLER THOMAS [US], et al)
 [Y] 1-23
 * See paragraphs [0003], [0026] -[0029], [0038]-[0044] and figures 1, 4-5B. *;
[US2013287348](#) A1 20131031
 [Y] (REGISTER III JAMES ARTHUR [US], et al)
 [Y] 1-23
 * See paragraph [0014], claims 1-2 and figure 1. *;
[US2012039571](#) A1 20120216
 [Y] (CIECHOMSKI TOMASZ A [PL], et al)
 [Y] 7-8, 11-12, 16, 18, 21-22
 * See paragraphs [0029]-[0032] and figure 3. *;
[US2009022460](#) A1 20090122
 [A] (LU YU [US], et al)
 [A] 1-23
 * See paragraphs [0049]-[0052], claims 1-2 and figures 3-4. *;
[JPH08304675](#) A 19961122
 [A] (NIPPON TELEGRAPH & TELEPHONE)
 [A] 1-23
 * See paragraphs [0010]-[0017] and figures 1-6. *
- CCI - [G02B6/3817](#) ; [G02B6/3885](#)
- CUI - [G02B6/4285](#) ; [G02B6/3846](#) ;
[G02B6/4293](#) ; [H01R4/021](#) ;
[H01R4/24](#) ; [H01R13/502](#) ;
[H01R13/5205](#) ; [H01R13/5216](#) ;
[H01R13/5221](#) ; [H01R13/625](#) ;
[H01R24/20](#) ; [H01R24/28](#)
- PA - COMMScope TECHNOLOGIES LLC



- [US]
- TI - HYBRID CONNECTION SYSTEM
USING FACTORY
CONNECTORIZED **PIGTAIL**
- AB - A hybrid **optical** and **electrical**
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and second ends; and b) a
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connector that is factory
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stub **cable**. The closure mounts at
the second end of the stub **cable**
for enclosing **optical**
and **electrical** connections
between the second end of the
stub **cable** and a field **cable**.

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- PN - [DE102009035423](#) A1 20110224
- PNFP - DE102009035423 B4 20130328
- PR - DE20091035423 20090731
- AP - DE20091035423 20090731
- DT - *; Rep
- CT - || STSE (A1 B4)
[DE102007039294](#) A1 20090402 [] (ZELLNER GMBH [DE]);
[US5666453](#) A 19970909 [] (WITTE ROY [US]);
[US5265187](#) A 19931123 [] (NORTHERN TELECOM LTD [CA]);
[WO2009155037](#) A2 20091223 [] (ADC TELECOMMUNICATIONS INC [US], et al)
- CTNP - (A1)
[] TracerLight, "Connector Identification System" Auszug aus den Spezifikationen der Firma ADC (USA), S. 2-3, 7/07 (104282AE)
[] "Light Tracer Patch Cord" der Firma Happ
- (B4)
[] "Light Tracer Patch Cord" der Firma Happ
[] "TracerLight(R); Connector Identification System"; Auszug aus den Spezifikationen der Firma



ADC (USA); S. 2-3; 7/07
(104282AE)

CCI - [G02B6/4471](#)

CCA - [G02B6/3895](#)

PA - (A1 B4)
ZELLNERGMBH[DE]

TI - (A1)
Fiber optical cable, has displays including display housing with integrated **optical fiber** distribution support, in which **cable** is distributed into **pigtail** and signal line, and signal-line and signal transmitters are connected

AB - (A1)
The **cable** (3) has a display (4) including a signal transmitter e.g. LED, which is connected with another signal transmitter of another display (7) using an **electrical** signal-line so that the former signal transmitter is activated while supplying energy from the **electrical** signal-line to the former display. The displays have a display housing with integrated **optical fiber** distribution support, in which the **cable** is distributed into a **pigtail** (8) and the signal line, and the signal-line and the signal transmitters are connected. Independent claims are also included for the following: (1) a method for identifying a **fiber optical cable** (2) a method for producing the **fiber optical cable**.

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PN - [CN101750685](#) A 20100623

PNFP - CN101750685B B 20120418

PR - CN20081238125 20081208

AP - CN20081238125 20081208

DT - I

PA - (A B)
ZHENHAI ZHAO

TI - (A B)
Combined using method for **optical cable** and mine **cable** and mine **cable** as **fiber-optical** communication

AB - (A)
The invention provides a combined using method for an **optical cable** and a mine **cable** and the mine **cable** used as **fiber optical** communication, which is to arrange the **optical fiber** in the mine **cable** to ensure that the **optical fiber** and the **cable** are combined to a whole to form the mine **cable** used as **fiber optical** communication. In a connecting line cavity of explosion-proof type **electrical** equipment of high voltage feed switch, a low

voltage feed switch, an electromagnetic initiator and the like, the end of the **optical cable** is manufactured into a **pigtail** and is connected with an **optical** interface of an **optical** transmitter and receiver through an **optical fiber** connector and a jumper; the **optical** transmitter and the receiver is connected with an intelligent integrated protective device in a main cavity through a communication interface; the jumper and the **optical** transmitter and receiver are connected through an **optical cable** explosion-proof cavity connection device, or are connected through wiring terminals on a separator of two cavities; and non-disconnected connection of non explosion proof equipment and the explosion proof high voltage equipment can adopt an **optical fiber** connector. The **optical cable** and the **cable** are combined into a whole without impacting fracture and insulation of the **cable**, so that the underground **optical cable** applying range is the same as that of cables to solve the problem of **optical fiber** communication between electric equipment; and the method saves cost because the **optical cable** is not required to be applied independently, so that the underground power supply and **fiber-optical** communication can be organically combined.

- (B)

The invention provides a combined using method for an **optical cable** and a mine **cable** and the mine **cable** used as **fiber optical** communication, which is to arrange the **optical fiber** in the mine **cable** to ensure that the **optical fiber** and the **cable** are combined to a whole to form the mine **cable** used as **fiber optical** communication. In a connecting line cavity of explosion-proof type **electrical** equipment of high voltage feed switch, a low voltage feed switch, an electromagnetic initiator and the like, the end of the **optical cable** is manufactured into a **pigtail** and is connected with an **optical** interface of an **optical** transmitter and receiver through an **optical fiber** connector and a jumper; the **optical** transmitter and the receiver is connected with an intelligent integrated protective device in a main cavity through a communication interface; the jumper and the **optical** transmitter and receiver are connected through an **optical cable** explosion-proof cavity connection device, or are connected through wiring terminals on a separator of two cavities; and non-disconnected connection of non explosion proof equipment and the explosion proof high voltage equipment can adopt an **optical fiber** connector. The **optical cable** and the **cable** are combined into a whole without impacting fracture and insulation of the **cable**, so that the underground **optical cable** applying range is the same as that of cable to solve the problem of **optical fiber** communication between electric equipment; and the method saves cost because the **optical cable** is not required to be applied independently, so that the underground power supply and **fiber-optical** communication can be organically combined.

PN - [US4708430](#) A 19871124

PR - CA19840466325 19841025

AP - US19840665636 19841029

DT - **

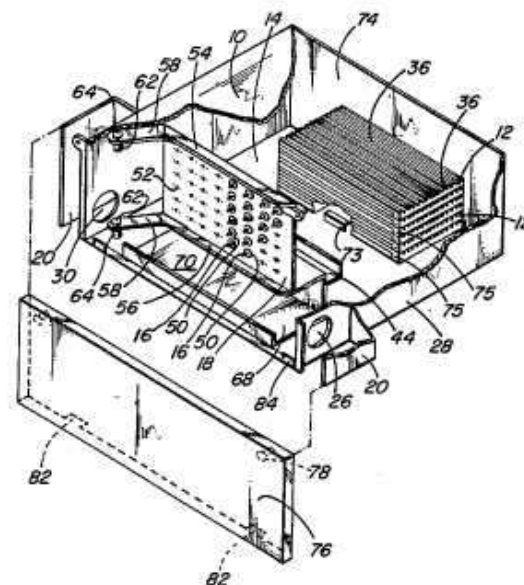
CT - [US4319951](#) A []; [US4595255](#) A [];
[US4630886](#) A []; [FR2538918](#) A1 [];
[JPS58117513](#) A []

CCI - [G02B6/4454](#) ; [G02B6/4452](#)

PA - NORTHERN TELECOM LTD [CA]

TI - Cabinet for **optical cable** terminating equipment

AB - A **cable** terminating cabinet for terminating **optical** waveguide cables contains an array of **optical** waveguide connectors one side of each connector having a **pigtail fiber** attached to it, the **pigtail** fibers being spliced to waveguides of a **cable** terminated at the cabinet. Waveguides terminating at the other side of the connector are taken to electro-optic units where **optical** signals within the fibers are converted into corresponding **electrical** signals. The cabinets find application either at a central office **cable** terminating frame or in a test access unit at a location remote from the central office. The connectors are mounted in a panel which is exposed when a front cover of the cabinet is removed, the panel being pivoted about a vertically orientated hinge to expose a stacked set of splice organizing trays at the rear of the cabinet. Ready access is therefore possible to both the connector panel and the splice organizing trays. However the frontal area of the cabinet is small and, because access can be gained to both the trays and the connectors from the front of the cabinet, the cabinet can be wall mounted so saving space in a central office or test access location.



PN - [CN1664537](#) A 20050907

PNFP - CN100538309C C 20090909

PR - CN2004103423 20040301

AP - CN2004103423 20040301

DT - I

PA - (A C)
UNIV BEIJING BUAA [CN]

TI - (A C)
On-line modularized testing device for **optical fiber** ring in optic **fiber** gyroscope

AB - (A)
A device for measuring the **optical** ring of gyroscope on-line modularity, including circuit conciliating modular, light leading-in modular, **optical** ring modular, the light leading-in modular provides the power and steady polarizing coherent light for the **optical** ring, transmits the **optical** interference signal to the **electrical** signal and exports to the circuit conciliating modular which connected with the light leading-in modular through the electric **cable**, which can measure, control and output the signal of the whole **optical** path, the measured **optical** ring modular is connected with the output end of the light leading-in modular through two **pigtail optical fiber** being protected, The measurement of the **optical** ring is in the actual condition of the **optical** gyroscope and the output and input are identical with the actual use, it not only tests the parameter of the **optical** ring such as depletion and reciprocity but also tests the system response in the temperature, impact and vibration.

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PN - [CA1249741](#) A 19890207

PR - CA19840466325 19841025

AP - CA19840466325 19841025

DT - I

CCI - [G02B6/4452](#) ; [G02B6/4454](#)

PA - NORTHERNTELECOMLTD

TI - **OPTICAL CABLE TERMINATING EQUIPMENT**

AB - **OPTICAL CABLE TERMINATING EQUIPMENT** A **cable** terminating cabinet for terminating **optical** waveguide cables contains an array of **optical** waveguide connectors one side of each connector having a **pigtail fiber** attached to it, the **pigtail** fibers being spliced to waveguides of a **cable** terminated at the cabinet. Waveguides terminating at the other side of the connector are taken to electro-optic units where **optical** signals within the fibers are converted into corresponding **electrical** signals. The cabinets find application either at a central office **cable** terminating frame or in a test access unit at a location remote from the central office. The connectors are mounted in a panel which is exposed when a front cover of the cabinet is removed, the panel being pivoted about a vertically orientated hinge to expose a stacked set of splice organizing trays at the rear of the cabinet. Ready access is therefore possible to both the connector panel and the splice organizing trays. However the frontal area of the cabinet is small and, because access can be gained to both the trays and the connectors from the front of the cabinet, the cabinet can be wall mounted so saving space in a central office or test access location.