

Informe 2do examen de fondo

Search history

Search 1: cable and fire and water and layer and polymer (Results 121)
Search 2: 1 and (jacket or sheat*) (Results 46)
Search 3: 2 and (protect* or buffer) (Results 24)
Search 4: 3 and (telecom* or signal or optic*) (Results 10)

Title: OPTICAL CABLE AND METHOD OF MANUFACTURING AN OPTICAL CABLE

Abstract: Source: US2008279514A An optical cable comprises a buffered optical fiber which is arranged within a buffer tube. The buffer tube is extruded around the buffered optical fiber such that a small gap, preferably in a range between about 40 μm and about 100 μm , is formed between the buffered optical fiber and the buffer tube. A layer of strength member elements is disposed around the buffer tube. A cable jacket is extruded around the strength member elements wherein the strength member elements are bonded to the cable jacket.

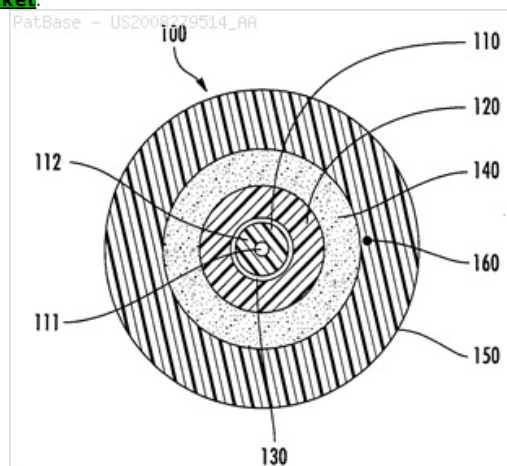
Classifications:

International (IPC 8-9): G02B6/44 (Advanced/Invention); G02B6/44 (Core/Invention)

CPC: G02B6/4402 G02B6/4433

European: G02B6/44C1 G02B6/44C7A1L

US: 385/113



Family:

Publication number	Publication date	Application number	Application date
AU2008248141 AA	20081113	AU20080248141	20080506
AU2008248141 BB	20110929	AU20080248141	20080506
AU2008248141 BH	20111201	AU20080248141	20080506
CN101558343 A	20091014	CN200880001036	20080506
CN101558343 B	20120905	CN200880001036	20080506
EP2069844 A1	20090617	EP20080754221	20080506
EP2069844 B1	20170712	EP20080754221	20080506
ES2643299 T3	20171122	ES20080754221T	20080506
US2008279514 AA	20081113	US20070800879	20070508
WO08137151 A1	20081113	WO2008US05797	20080506

Priority:

EP20080754221 20080506 US20070800879 20070508 WO2008US05797 20080506

Probable Assignee: CORNING CABLE SYSTEMS LLC

Assignee(s): (std): CORNING OPTICAL COMMUNICATIONS LLC ; HURLEY WILLIAM C ; WUENSCH GUENTER ; KUNDIS DIETER E ; MERBACH GERHARD ; WUNSCH GUNTER ; KUNDIS DIETER ; CORNING CABLE SYS LLC ; CORNING CABLE SYSTEM LLC

Assignee(s): CORNING CABLE SYSTEMS LLC

Inventor(s): (std): KUNDIS DIETER ; WUNSCH GUNTER ; WUENSCH GUENTER ; MERBACH GERHARD ; KUNDIS DIETER E ; HURLEY WILLIAM C ; GUENTER WUENSCH ; GERHARD MERBACH

Inventor(s): DIETER E KUNDIS ; WILLIAM C HURLEY

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; EPPING HERMANN FISCHER; CARVAJAL Y ISABEL; CORNING INC; CARROLL MICHAEL E JR

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: INDOOR/OUTDOOR OPTICAL CABLES

Abstract: Source: US2002001443A A fiber optic cable suitable for indoor applications includes a core tube surrounding a plurality of coated optical fibers; a jacket formed of a polymer material surrounding the core tube; and at least one layer of strength members disposed between said core tube and said jacket. The jacket has an outer diameter of not greater than about 7 to 12 mm and the coated optical fibers experience a short-term increase in signal attenuation of no more than about 0.01 dB when the cable is looped in a radius of 5 centimeters.

Classifications:

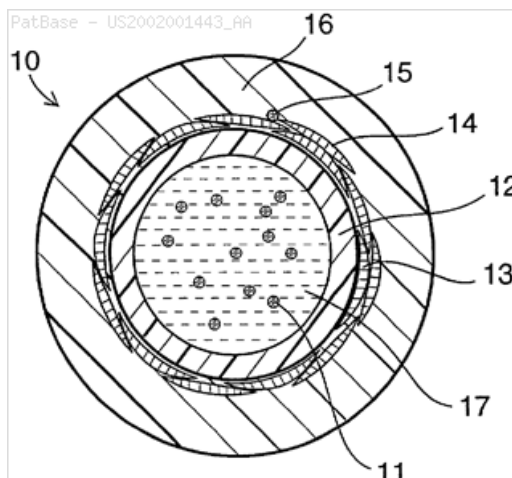
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International (IPC 1-7): G02B6/16 G02B6/44

CPC: G02B6/441 G02B6/443 G02B6/4436 G02B6/4494

European: G02B6/44C11 G02B6/44C5 G02B6/44C7A G02B6/44C7F
S02B6/44C11 S02B6/44C5

US: 385/109 385/113 385/113P



Family:

Publication number	Publication date	Application number	Application date
CA2231620 AA	19980924	CA19982231620	19980310
CA2292185 AA	20000621	CA19992292185	19991215
DE69837733 D1	20070621	DE19986037733	19980320
DE69837733 T2	20080619	DE19986037733T	19980320
EP0867740 A1	19980930	EP19980302143	19980320
EP0867740 B1	20070509	EP19980302143	19980320
EP1014135 A1	20000628	EP19990310218	19991217
JP11023926 A2	19990129	JP19980075165	19980324
US2002001443 AA	20020103	US19980217527	19981221
US5852698 A	19981222	US19970823260	19970324
US6487347 BB	20021126	US19980217527	19981221

Priority:

CA19982231620 19980310 CA19992292185 19991215 US19970823260 19970324
US19980217527 19981221

Probable Assignee: CORNING OPTICAL COMMUNICATIONS LLC

Assignee(s): (std): CORNING CABLE SYS LLC ; SIECOR CORP ; SIECOR OPERATIONS LLC

Assignee(s): SIECOR OPERATIONS LLC PO BOX ; SIECOR TECHNOLOGY INC ; CORNING CABLE SYSTEMS LLC ;
CORNING OPTICAL COMMUNICATIONS LLC ; BRINGUIER ANNE G ; CCS TECHNOLOGY INC

Inventor(s): (std): BRINGUIER ANNE G

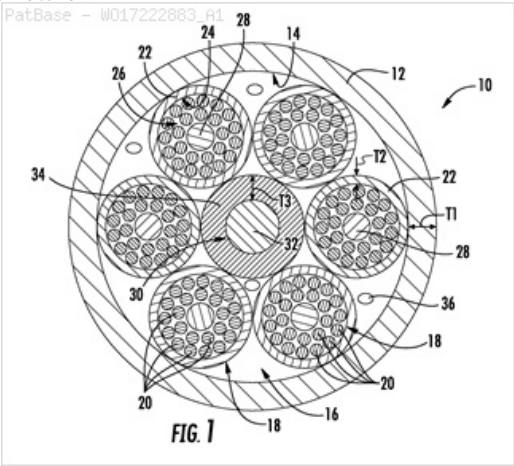
Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: FIRE RETARDANT OPTICAL FIBER CABLE

Abstract: An optical communication cable is provided. The optical communication cable includes a cable jacket and a plurality of optical fiber subunits surrounded by the cable jacket. Each optical fiber subunit includes a subunit jacket and a plurality of optical fibers located within the subunit passage. Each optical fiber includes an outer polymer buffer coating, such as a tight buffer coating. The outer cable jacket and/or the outer polymer buffer coating of the optical fibers is formed from a halogen containing polymer material including a fire retardant material, and the subunit jacket is formed from a polyolefin polymer material including a fire retardant material.

Classifications:
International (IPC 8-9): G02B6/44 (Advanced/Invention)
CPC: G02B6/4436



Family:

Publication number	Publication date	Application number	Application date
WO17222883 A1	20171228	WO2017US37397	20170614

Priority:

US20160353748P 20160623

Probable Assignee: CORNING OPTICAL COMMUNICATIONS LLC

Assignee(s): (std): CORNING OPTICAL COMMUNICATIONS LLC

Inventor(s): (std): HUDSON II HAROLD EDWARD ; HURLEY WILLIAM CARL

Agent(s): DOYLE WILLIAM D

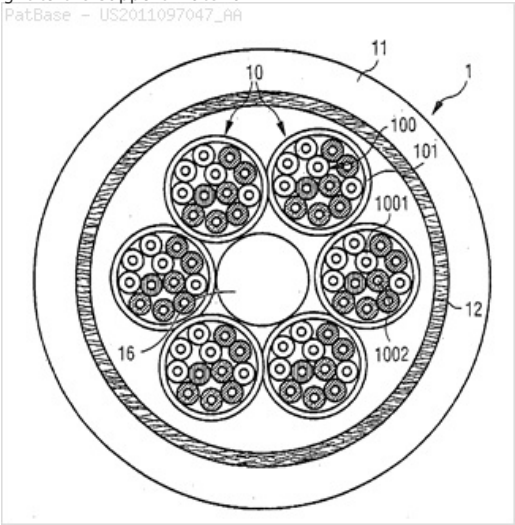
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Title: **CABLE** HAVING **FIRE-PROTECTION** CHARACTERISTICS, AND METHOD FOR MANUFACTURING THE SAME

Abstract: Source: US2011097047A A **cable** is provided which is longitudinally waterproof and has improved **fire protection** characteristics. The **cable** contains a composite material with a first substance which can be expanded by **water** being supplied to it, and a second substance which can be foamed by heat being supplied to it and is suitable for production of a glass **layer**. The composite material also has a substrate to which the first substance and the second substance are bonded. The composite material can be produced by dissolving the first substance and the second substance in a solvent, and by introducing the solvent into the support material, or by applying it to the support material.

Classifications:

International (IPC 8-9): G02B6/04 G02B6/44 H01B7/17 H01B7/28
H01B7/288 H01B7/29 (Advanced/Invention);
G02B6/04 G02B6/44 H01B7/17 (Core/Invention)
CPC: G02B6/4411 G02B6/4436
European: G02B6/44C7F S02B6/44C5A
US: 385/100 385/100P 385/102 385/103 385/106



Family:

Publication number	Publication date	Application number	Application date
CA2594369 AA	20070705	CA20062594369	20060112
CN101103292 A	20080109	CN200680002140	20060112
DE102005001670 B3	20060824	DE200510001670	20050113
EP1846789 A1	20071024	EP20060705779	20060112
US2011097047 AA	20110428	US20060795191	20060112
US7986863 BB	20110726	US20060795191	20060112
WO06074647 A1	20060720	WO2006DE00040	20060112

Priority:

DE200510001670 20050113 WO2006DE000040 20060112

Probable Assignee: CCS TECHNOLOGY INC

Assignee(s): (std): CCS TECHNOLOGY INC ; FRUHNERT STEFAN

Assignee(s): CORNING CABLE SYSTEMS GMBH AND CO KG

Inventor(s): (std): FRUHNERT STEFAN ; STEFAN FRUHNERT

Agent(s): FETHERSTONHAUGH AND CO; C KEITH

Designated states: BE AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: **CABLE** OR **CABLE** ACCESSORY COMPRISING A **FIRE**-RESISTANT **LAYER**

Abstract: Source: US2017345528A The invention relates to a device comprising a **cable** and/or a **cable** accessory, said **cable** and/or **cable** accessory containing at least one insulating and **fire**-resistant **layer**, as well as to a method for manufacturing a **cable** and/or accessory of said type.

Classifications:

International (IPC 8-9): C04B12/00 C04B12/04 C04B16/06 C04B24/18 C04B28/00 C04B28/26 H01B13/00 H01B13/06

H01B3/14 H01B3/30 H01B3/48 H01B7/29 H01B7/295 H01B9/00 (Advanced/Invention);

C04B103/22 C04B111/00 C04B111/28 C04B111/80 C04B111/92 (Advanced/Non-invention)

CPC: C04B28/26 C04B28/04 C04B28/08 C04B2111/50 Y02W30/92 Y02W30/94 Y02W30/97 C04B12/005 H01B13/00

H01B9/003 C04B24/18 C04B28/008 H01B13/06 H01B3/30 C04B16/0633 C04B2103/22 H01B7/295 C04B2111/00482

C04B2111/00844 C04B2111/28 C04B2111/802 C04B2111/92 H01B3/14 H01B3/48

Family:

Publication number	Publication date	Application number	Application date
CA2969947 AA	20170605	CA20152969947	20151208
CN107112070 A	20170829	CN201580073428	20151208
EP3230231 A1	20171018	EP20150817979	20151208
FR3030100 A1	20160617	FR20140062188	20141210
KR20170095937 A	20170823	KR20177019069	20151208
US2017345528 AA	20171130	US20150533882	20151208
WO16092200 A1	20160616	WO2015FR53372	20151208

Priority:

FR20140062188 20141210 WO2015FR53372 20151208

Probable Assignee: NEXANS

Assignee(s): (std): NEXANS

Assignee(s): AUVRAY THIERRY ; GYPPAZ FRANCK

Inventor(s): (std): AUVRAY THIERRY ; GYPPAZ FRANCK

Inventor(s): THIERRY AUVRAY ; FRANCK GYPPAZ

Agent(s): ROBIC ; GOULARD SOPHIE; IPSILON FERAY LENNE CONSEIL; FERAY VALERIE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FLEXIBLE **FIRE** RETARDANT MULTI-**LAYER** STRUCTURES COMPRISING POLYOLEFIN AND POLYAMIDE **LAYERS** AND PROCESS FOR MAKING THE SAME

Abstract: Source: US6114036A Multilayer structure having a first **layer** of a **fire** retardant polyolefin comprising composition and a second **layer** of a polyamide comprising composition comprises up to 20 percent by weight of a phosphonate ester having the structure: wherein the value of "x" is 0 or 1.

Classifications:

International (ipc 8-9): B29C47/06 B32B27/08 B32B27/18
C08K5/5357 G02B6/44 H01B3/30 H01B3/44

H01B7/295 (Advanced/Invention);

B32B27/08 C08K5/00 G02B6/44 H01B3/30 H01B3/44

H01B7/17 (Core/Invention)

International (ipc 1-7): B29C47/06 B32B27/00 B32B27/18

C08K5/5357 C09K21/12 D02G3/00 H01B7/34

CPC: Y10S428/92 C08K5/5357 G02B6/4436 H01B3/305 H01B3/441

Y10T428/2947 Y10T428/3175 Y10T428/31757 B32B27/32 B32B27/34

B32B2307/206 B32B2307/3065 B32B27/08 H01B7/295

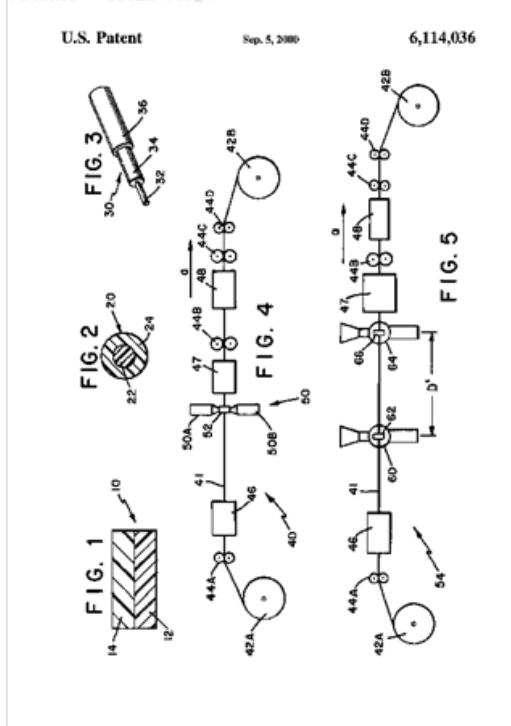
European: B32B27/08 C08K5/5357 G02B6/44C7F H01B3/30C2

H01B3/44B H01B7/295

US: 174/107 252/609 427/393.3 428/383 428/476.3 428/476.9

428/920 524/113 8/115.7 8/584

PatBase - US6114036_A



Family:

Publication number	Publication date	Application number	Application date
CA2129515 AA	19940804	CA19932129515	19930312
DE69302904 D1	19960704	DE19936002904	19930312
DE69302904 T2	19961010	DE19936002904T	19930312
EP0631538 A1	19950104	EP19930907470	19930312
EP0631538 B1	19960529	EP19930907470	19930312
US6114036 A	20000905	US19920853224	19920317
WO9318914 A1	19930930	WO1993US02290	19930312

Priority:

US19920853224 19920317 US19920853224 19920317 WO1993US02290 19930312
WO1993US02290 19930312

Probable Assignee: BASF AG

Assignee(s): (std): ALLIED SIGNAL INC

Assignee(s): ALLIED SIGNAL INC A OF DELAWARE CORP ; ALLIEDSIGNAL INC ; ALLIEDSIGNAL INC MORRISTOWN N J US ; BASF AG ; KARTHEISER PETER JULUIS ; RINEHART ROBERT EUGENE

Inventor(s): (std): KARTHEISER PETER JULUIS ; RINEHART ROBERT ; RINEHART ROBERT EUGENE ; KARTHEISER PETER ; KARTHEISER PETER JULIUS

Inventor(s): KARTHEISER PETER JULIUS LONG VALLEY NJ 07853 US ; RINEHART ROBERT EUGENE FREDON NJ 07860 US

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Title: CLOTHING AND COVERING SYSTEM WITH VARIOUS FUNCTIONS

Abstract: Source: US2015071978A Clothing and covering system with various functions comprising at least one item, having at least one **layer**, at least one fabric, and at least one function. At least one function is selected from the group consisting of wearing on body, fashion display, preventing snow, preventing wind, preventing sun, preventing dust and dirt, support, comfort, performance, **protection**, insulation, warmth, coverage, storage, containment, drying, wiping, drainage, security, housing, **water** flotation, thermal insulation, heat resistance, bullet proofing, sun screening, non ironing, breasts shaping, arch support, seamless footwear, bandaging, cover polarizing, pressure addition, cover planting, electricity generation, food storage with coated paper, odor absorption, aromatherapy, moisturizing, cleansing, dust trapping, glow-in-the-dark, **water** and leakage proofing, and ingredient addition. Leakproof clothing and covering can control and prevent both leakage of body discharge and secretion, and leakage of rain and **water**. Clothing and covering with ingredient addition includes flavoring ingredient, cleansing ingredient, nutritional ingredient, and health ingredient.

Classifications:**International (IPC 8-9):** A61K9/00 A61N2/06 (Advanced/Invention)**CPC:** A61N2/06 Y10T428/249921**US:** 424/402 428/221 600/15**Family:**

Publication number	Publication date	Application number	Application date
US2015071978 AA	20150312	US20130089362	20131125

Priority:

US20130089362 20131125 US20130874967P 20130906

Probable Assignee: CHANG ALICE**Assignee(s):** (std): CHANG ALICE**Inventor(s):** (std): CHANG ALICE

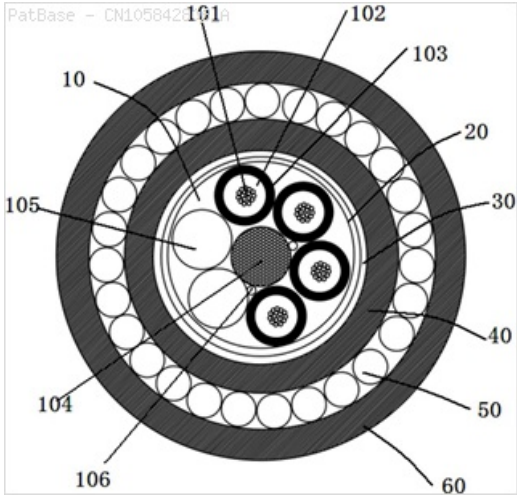
Title: HIGH-STRENGTH, HIGH-FLAME RETARDANT AND FIRE-RESISTANT OPTICAL CABLE

Abstract: Source: CN105842806A The invention discloses a high-strength, high-flame retardant and fire-resistant optical cable. The optical cable comprises a cable core; the periphery of the cable core is coated with a water-resisting layer; the exterior of the water resisting layer is coated with a first sheath layer; the exterior of the first sheath layer is coated with a second sheath layer; the first sheath layer includes a steel-plastic composite belt and a ceramicizable polymer fireproof flame-retardant inner protective layer, wherein the steel-plastic composite belt longitudinally coats the water resisting layer; and the second sheath layer includes a steel wire armor and a high-flame retardant outer sheath, wherein the steel wire armor is arranged at the periphery of the ceramicizable polymer fireproof flame-retardant inner protective layer. According to the fire-resistant optical cable, the inner sheath and the outer sheath are combined advantageously, so that the fire-resistant optical cable has excellent mechanical properties such as tensile performance, compressive strength and impact in installation and use, and can withstand the burning of large flames as well as the spray of fire fighting water, the hit of heavy objects and the impact of falling objects in rescue; after a fire, the cable core can be still protected in a hard ceramic sleeve, and communication will not be interrupted; and thus communication loss caused by the fire can be reduced to the greatest extent.

Classifications:

International (IPC 8-9): G02B6/44 (Advanced/Invention)

CPC: G02B6/443 G02B6/4432 G02B6/4436 G02B6/4494



Family:

Publication number	Publication date	Application number	Application date
CN105842806 A	20160810	CN201610382886	20160601

Priority:

CN201610382886 20160601

Probable Assignee: JIANGSU ETERN CO LTD

Assignee(s): (std): JIANGSU ETERN CO LTD

Assignee(s): JIANGSU YONGDING CO LTD ; JIANGSU ETERN CO

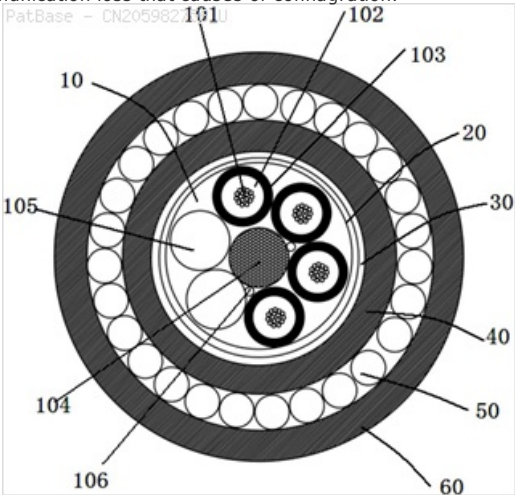
Inventor(s): (std): CHEN XIAOHONG ; LING DANFENG ; WEI ZUGUO ; XIA GUIJUN ; YANG HONGLEI ; YAO ZIFENG

Title: HIGH FIRE -RETARDANT CABLE OF RESISTANT FIRELIGHT OF HIGH STRENGTH

Abstract: Source: CN205982756U The utility model discloses a high fire -retardant cable of resistant firelight of high strength, it includes the cable core, and the cladding of cable core periphery has the water blocking layer, and the outside cladding of water blocking layer has the first layer sheath, and the outside cladding of first layer sheath has second floor sheath, but the first layer sheath includes the steel moulds sheath in compound area and the vitrification polymer fire -resistant and flame -retardant, the steel is moulded compound area and is indulged the package and be in the water blocking layer is outside, second floor sheath includes steel wire armouring and high fire -retardant oversheath, but the periphery of steel wire armouring setting sheath in vitrification polymer fire -resistant and flame -retardant. Mechanical properties such as this optical cable of the inside and outside sheath advantage of the above -mentioned cable of nai firelight combination messenger not only has fine tensile, resistance to compression when laying and use, shock resistance, and when the conflagration necessarily the big fire of bearing of limit lick that fire water in licking, relieving disaster sprays, the heavy object strikes, the shedding strikes, conflagration cable core later still can not suspend communication by the protection in hard pottery cover to furthest's reduction the communication loss that causes of conflagration.

Classifications:

International (IPC 8-9): G02B6/44 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN205982756 U	20170222	CN201620524739U	20160601

Priority:

CN201620524739U 20160601

Probable Assignee: JIANGSU ETERN CO LTD

Assignee(s): (std): JIANGSU ETERN CO LTD

Assignee(s): JIANGSU YONGDING CO LTD ; JIANGSU ETERN CO

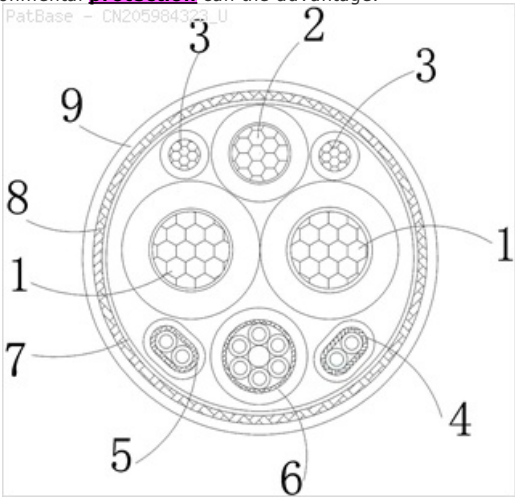
Inventor(s): (std): CHEN XIAOHONG ; LING DANFENG ; WEI ZUGUO ; XIA GUIJUN ; YANG HONGLEI ; YAO ZIFENG

Title: NEW FORMS OF ENERGY FILL FOR ELECTRIC PILE HIGH VOLTAGE DIRECT CURRENT MULTI -LINE **CABLE** THAT CHARGES

Abstract: Source: CN205984323U The utility model discloses a new forms of energy fill for electric pile high voltage direct current multi -line **cable** that charges, two sets of high voltage DC including the center the charge neutral sinle silk of sinle silk, a set of high voltage charging, two sets of small size power sinle silk, a set of instrument sinle silk, a set of **signal cable** cores, a set of control core, each sinle silk outside of center stacks gradually the package around having ribbon **layer**, total shielding **layer** from inside to outside, and total shielding **layer** sets up outward synthesizes the oversheath **layer**, the utility model discloses a multiunit **cable** is through the cabling process stranding to it puts up around wrapping tightly to adopt flexible high strength PP area to overlap in the stranding, the shielding **layer** adopts metal copper wire knitting skill to prevent external electromagnetic interference, ensure inside various lines and work better, the outmost **polymer** modification low smoke halogen free outer **sheath** material **protection layer** of extruding, the utility model discloses simple structure realizes with low costsly to have **fire** -retardant, resistant high low temperature, acid and alkali -resistance, resistant oil, antily tear, waterproof, softness and the feature of environmental **protection** can the advantage.

Classifications:

International (IPC 8-9): H01B7/00 H01B7/02 H01B7/17
H01B7/18 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN106229039 A	20161214	CN201610760140	20160830
CN205984323 U	20170222	CN201620983150U	20160830

Priority:

CN201610760140 20160830 CN201620983150U 20160830

Probable Assignee: JIANGXI HEJIA TECH CO LTD

Assignee(s): (std): JIANGXI HEJIA TECH CO LTD

Assignee(s): JIANGXI HEJIA TECHNOLOGY CO ; JIANGXI TECHNOLOGY CO LTD

Inventor(s): (std): ZHAO YAN ; XU GUIYOU ; JIA DONGMING ; HUANG ZHEN