

1) Family number: 58129656 (US2017360497A)

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Title: CABLE FOR CONVEYING RADIOFREQUENCY AND/OR MICROWAVE FREQUENCY ENERGY TO AN ELECTROSURGICAL INSTRUMENT

Abstract: Embodiments of the invention provide a hollow cable for transmitting radiofrequency and/or microwave frequency energy to an electrosurgical instrument, wherein the hollow cable is provided with electrical connectors for forming a bipolar electrical connection with an electrosurgical instrument that fits within, e.g. slides relative to, the hollow cable. The connectors can be conductive protrusions extending in an axial direction on opposite sides of the cable. The protrusions can be tabs, fins, rods, pins, or wires. The protrusions can be strips which engage corresponding terminals on the instrument. The transmission line structure of the invention can have a greater diameter than conventional coaxial cables, which can minimize loss whilst still providing access for control wires and/or fluid to reach a surgical instrument. The cable can be used with multiple instruments.

Classifications:

International (IPC 8-9): A61B A61B17/00 A61B18/12 A61B18/14 A61B18/18 H01B11/18 H01B7/00 H01B9/00 H01B9/04 H01P1/06 H01R24/40 (Advanced/Invention);

A61B17/00 A61B18/00 (Advanced/Non-invention)

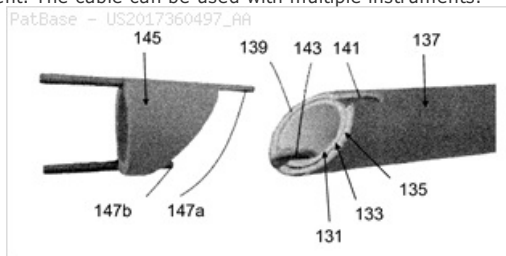
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CPC: A61B18/14 A61B18/18 A61B18/1815 H01B9/006 H01B9/04 H01B11/18 A61B18/1206 H01P1/06 A61B18/12 A61B2018/00065 A61B2018/00148 A61B2018/126 A61B2017/00477 H01R2201/12

US: 1/1 606/41

JP F-Term: 2G084 2G084/AA24 2G084/CC03 2G084/CC04 2G084/CC05 2G084/CC06 2G084/DD42 4C160 4C160/JK01 4C160/KK03 4C160/KK04 4C160/KK37 4C160/MM32 5G309 5G309/FA04 5G317

JP F-Index: A61B18/12 A61B18/18/100 H01B7/00/306 H01B9/04 H05H1/24



Family:

Publication number	Publication date	Application number	Application date
AU2015332607 AA	20170511	AU20150332607	20151016
BR112017007772 A2	20180116	BR20171107772	20151016
CA2964663 AA	20170413	CA20152964663	20151016
CN107148247 A	20170908	CN201580056419	20151016
CN107148247 B	20190903	CN201580056419	20151016
EP3206609 A1	20170823	EP20150784008	20151016
GB201418479 A0	20141203	GB20140018479	20141017
GB201518347 A0	20151202	GB20150018347	20151016
GB201703797 A0	20170426	GB20170003797	20151016
GB2531434 A1	20160420	GB20150018347	20151016
GB2531434 B2	20170426	GB20150018347	20151016
GB2544693 A1	20170524	GB20170003797	20151016
GB2544693 B2	20180530	GB20170003797	20151016
HK1244415 A1	20180810	HK20180103233	20180307
IN201727012719 A	20170609	IN201727012719	20170410
JP2017533746 T2	20171116	JP20170520953T	20151016
KR20170070082 A	20170621	KR20177011433	20151016
SG11201703119S A1	20170530	SG20171103119	20151016
US2017360497 AA	20171221	US20150517864	20151016
WO16059222 A1	20160421	WO2015EP74036	20151016

Priority:

GB20140018479 20141017 GB20150018347 20151016 WO2015EP74036 20151016

Probable Assignee: CREO MEDICAL LTD

Assignee(s): (std): CREO MEDICAL LTD

Assignee(s): HANCOCK CHRISTOPHER PAUL ; TURNER LOUIS ; ULLRICH GEORGE CHRISTIAN ; WEBB DAVID EDWARD ; WHITE MALCOLM

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Agent(s): AJ PARK ; BERESKIN AND PARR LLP SENCRL SRL; ADISS JOHN WILLIAM; KING AND FUTURE INTELLIGENCE CONSULTANCY LTD; FUKAMI PATENT OFFICE PC; JOHNSON RICHARD ET AL

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

2) Family number: 69992248 (US2018156848A)

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Title: ANTI-POWER THEFT CABLES AND METHODS

Abstract: A cable includes a core and a plurality of layers surrounding the core. In one embodiment, at least one of the layers surrounding the core includes multiple sets of phase conductors. The respective sets of phase conductors are electrically isolated from one another. Other cables are also provided.

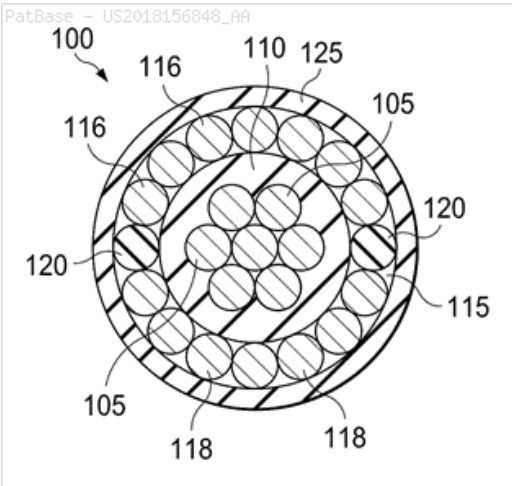
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International (IPC 8-9): G01R22/06 G02B6/42 H01B11/06 H01B11/10 H01B7/00 H01B7/02 H01B7/38 H01B9/00 H01B9/04 (Advanced/Invention)

International (IPC 1-7): H01B7/02

CPC: H01B9/006 H01B9/04 G01R22/066 G02B6/421 H01B7/0225 H01B7/38

US: 1/1 174/113C



Family:

Publication number	Publication date	Application number	Application date
AU2017368171 AA	20190613	AU20170368171	20171130
BR112019011341 A2	20191015	BR20191111341	20171130
CL2019001487 A1	20190823	CL20190001487	20190531
CO20180006944 A2	20180719	CO20180006944	20180716
EP3548905 A2	20191009	EP20170876222	20171130
ID201907331 A	20191011	ID2019P0004906	20171130
US2018156848 AA	20180607	US20170827692	20171130
US10288652 BB	20190514	US20170827692	20171130
US10345349 BB	20190709	US20170827692	20171130
WO18102551 A2	20180607	WO2017US63958	20171130
WO18102551 A3	20190704	WO2017US63958	20171130

Priority:

US20160429168P 20161202 US20170525424P 20170627 US20170827692 20171130
WO2017US63958 20171130

Probable Assignee: GENERAL CABLE TECH CORP

Assignee(s): (std): GENERAL CABLE TECH CORP

Assignee(s): GENERAL CABLE TECHNOLOGIES CORP

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Inventor(s): JARED WEITZEL D ; WEITZEL D

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; ESTUDIO CAREY LTDA; MARGARITA CASTELLANOS ABONDANO; COLOMBO STEFANO PAOLO; NADIA AM BADAR SH; ULMER AND BERNE LLP; ROBBINS ERIC M ET AL

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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT HW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW 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

3) Family number: 61651294 (US2017145580A)

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Title: CONTINUOUS COATING APPARATUS FOR ELECTROCERAMIC COATING OF METAL COIL OR WIRE

Abstract: A system and a process for continuously electrolytically coating a light metal coil is provided. The system includes a bath containing a precursor for an electroceramic coating on a light metal coil and containing a cathodic connection, at least one motor connected to at least one motive assembly to impart movement to the coil. A power source provides voltage and current to the coil through the electrification device, and through the coil in the bath to the cathode connection via the aqueous electrolytic solution. The process includes electrifying bare coil with a voltage and a current, passing the electrified bare light metal coil through a bath having a cathodic connection and containing an aqueous solution with a precursor for an electroceramic coating, and electrochemically reacting the light metal coil with the precursor thereby generating a coated light metal coil having an electroceramic coating on at least one surface.

Classifications:

International (IPC 8-9): C25D11/02 C25D17/08 C25D19/00 C25D7/06 C25D9/12 H01B1/02 H01B13/00 H01B13/06 H01B13/08 H01B13/16 H01B3/10 H01B5/00 H01B5/02 H01B5/08 H01B7/00 H01B7/02 H01B7/28 H01B7/29 H01B7/295 H01B7/30 H01B7/42 H01B9/00 H02G1/02 H02K3/02 H02K3/30 (Advanced/Invention)

International (IPC 1-7): H01B7/29

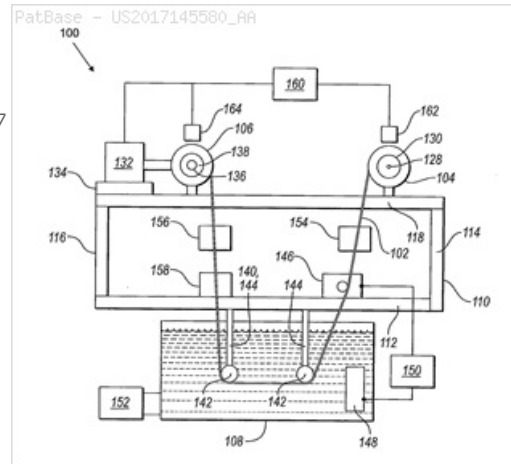
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H01B13/0891 H01B13/16 H02K3/02 H02K3/30

US: 1/1 174/110R 174/113R 205/50 310/179

JP F-Term: 5G307 5G307/BA05 5G307/BB03 5G307/BC03 5G307/BC04 5G307/BC06 5G307/BC07 5G307/BC10 5G307/EA01 5G307/EB06 5G307/EC03 5G307/EE01 5G307/EF02 5G309 5G309/AA11 5G309/MA01 5G315 5G315/CA02 5G315/CB01 5G315/CB02 5G315/CC05 5G315/CD07 5G315/CD17 5G323

JP F-Index: H01B5/02/A H01B5/08 H01B13/00/517 H01B7/00/301 H01B7/02/A H01B7/295



Family:

Publication number	Publication date	Application number	Application date
AU2015300890 AA	20170316	AU20150300890	20150807
AU2015300890 AH	20170413	AU20150300890	20150807
BR112017002352 A2	20171128	BR20171102352	20150807
CA2957412 AA	20170206	CA20152957412	20150807
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CN107004470 A	20170801	CN201580054346	20150807
CN107112088 A	20170829	CN201580054313	20150807
EP3178095 A1	20170614	EP20150829137	20150807
EP3178095 A4	20180606	EP20150829137	20150807
EP3178095 B1	20191002	EP20150829137	20150807
EP3178096 A1	20170614	EP20150830284	20150807
EP3178096 A4	20180523	EP20150830284	20150807
IN201747004371 A	20170526	IN201747004371	20170207
IN201747007225 A	20170526	IN201747007225	20170301
JP2017524232 T2	20170824	JP20170506768T	20150807
JP2017526127 T2	20170907	JP20170506790T	20150807
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TW201614917 A	20160416	TW20150125856	20150807
TW201618120 A	20160516	TW20150125850	20150807
TW201621093 A	20160616	TW20150125869	20150807
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US2017148547 AA	20170525	US20170425219	20170206
US2017148548 AA	20170525	US20170425123	20170206
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WO16022871 A1	20160211	WO2015US44122	20150807
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Priority:

US20140034308P 20140807	US20140034358P 20140807	WO2015US44122 20150807
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US20170425523 20170206		

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Assignee(s): MURPHY MICHAEL A JR ; LOMBARDO MICHAEL JR ; HENKEL AND COKGAA AG ; HENKEL AND CO AG

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Inventor(s): MURPHY MICHAEL A ; MURPHY JR ; LOMBARDO JR

Agent(s): SPRUSON AND FERGUSON; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MARY K; CAMERON MARY K ET AL

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: HIGH STRENGTH WINDABLE ELECTROMECHANICAL TETHER WITH LOW FLUID DYNAMIC DRAG AND SYSTEM USING SAME

Abstract: A tether, and system using such a tether, adapted to provide mechanical and electrical coupling of an airborne flying platform to the ground. The tether may have a center structural core with electrical conductors on or near the outer diameter of the tether. The tether may utilize exterior configurations adapted to reduce drag.

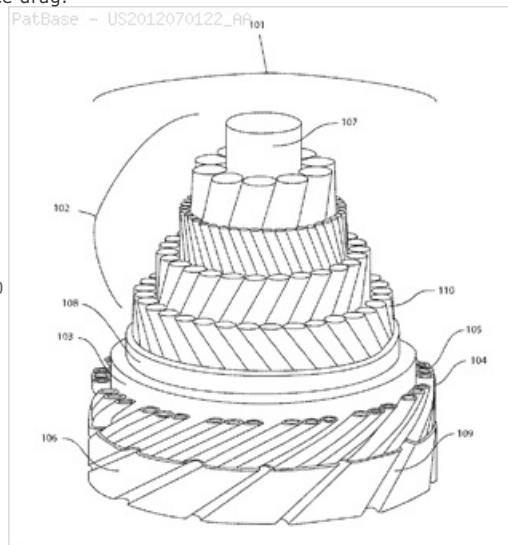
Classifications:

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CPC: F03D7/00 Y02E10/723 B01J19/08 B63B35/44 F05B2220/61 F05B2240/931 H01B7/025 F05B2240/922 H01B7/1815 B64C31/06 B64C13/24 Y02E70/10 Y02E10/728 D07B5/005 Y02E10/70 F03D13/25 Y02E10/727 D07B1/147 D07B1/148 D07B5/006 D07B2201/2087 D07B2201/2088 D07B2201/209 D07B2201/2094 D07B2205/2003 D07B2205/201 D07B2205/2046 D07B2205/2064 F03D5/00 F05B2240/917 F05B2240/921 H01B7/043 H02G11/00 D07B2801/22 F03D9/25 F03D13/20 G05D1/0866 F03D9/30 F03D80/00 F03D9/19 F03D9/32 B64C39/022 H01B9/006 F03D1/02 Y02E10/725 G02B6/4416

European: B64C31/06 F03D11/00 F03D5/00 F03D7/00 H01B7/04C H02G11/00 R05B240/917 R05B240/921 R05B240/922

US: 1/1 174/102R 174/102SP 174/106R 174/108 174/113C 174/27 174/40R 244/154 244/154S 244/155.00AS 244/155A 290/55 290/55P 385/103 385/103P



Family:

Publication number	Publication date	Application number	Application date
CN103118941 A	20130522	CN201180045064	20110719
CN103118941 B	20151014	CN201180045064	20110719
CN103282276 A	20130904	CN201180064052	20111103
CN103282276 B	20160120	CN201180064052	20111103
CN105161190 A	20151216	CN201510600649	20110719
CN105161190 B	20171003	CN201510600649	20110719
EP2595883 A1	20130529	EP20110810283	20110719
EP2595883 A4	20150930	EP20110810283	20110719
EP2635491 A1	20130911	EP20110838810	20111103
EP2635491 A4	20150916	EP20110838810	20111103
US2012070122 AA	20120322	US20110185507	20110719
US2012104763 AA	20120503	US20110288527	20111103
US2015047875 AA	20150219	US20140531449	20141103
US2015251754 AA	20150910	US20140584536	20141229
US2016056621 AA	20160225	US20150928850	20151030
US8921698 BB	20141230	US20110185507	20110719
US8922046 BB	20141230	US20110288527	20111103
US9227168 BA	20160105	US20140224021	20140324
US9230714 BB	20160105	US20140531449	20141103
US9896201 BB	20180220	US20140584536	20141229
US9899127 BB	20180220	US20150928850	20151030
WO12012429 A1	20120126	WO2011US44539	20110719
WO12012429 A8	20130328	WO2011US44539	20110719
WO12061598 A1	20120510	WO2011US59146	20111103

Priority:

US20100365655P	20100719	US20100409894P	20101103	CN201180045064	20110719
US20110185507	20110719	WO2011US44539	20110719	US20110288527	20111103
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Probable Assignee: MAKANI TECHNOLOGIES LLC

Assignee(s): (std): FELSER JACOB ; GOOGLE INC ; LIND DAMON VANDER ; MAKANI POWER INC ; VANDER LIND DAMON ; X DEV LLC

Assignee(s): MAKANI TECHNOLOGIES LLC ; CLOCK LLC ; MAKANI POWER ; X DEVELOPMENT LLC ; GOOGLE LLC ; GOOGLE VENTURES 2012 LP

Inventor(s): (std): VANDER LIND DAMON ; FELSER JACOB ; LIND DAMON VANDER ; CASEY LEO ; PATTEN ELIAS WOLFGANG ; DEVAUL RICHARD WAYNE ; FELSER JACOB FELSER

Agent(s): HOFSTETTER SCHURACK AND PARTNER; SCHURACK EDUARD F; MCDONNELL BOEHNEN HULBERT AND BERGHOFF LLP; GUTH MICHAEL A

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 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 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 MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW 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: WIRE CABLE WITH SAVING ENERGY

Abstract: A wire cable of electric conductor forming of multiple metals or alloys includes single (bundle) wire cable or double (bundle) wire cables, in which at least in one bundle of electric conductor, each bundle of electric conductor is composed of slim electric wire made by two or more than two metals or alloys, which is covered by insulator to form a wire cable of electric conductor.

Classifications:

International (ipc 8-9): D07B1/12 H01B7/00 H01B7/26 H01B7/30 H01B7/42 H01B9/00 H02G15/20 (Advanced/Invention);

H01B7/08 (Advanced/Non-invention);

D07B1/00 H01B7/00 H01B7/30 H01B9/00 H02G15/00 (Core/Invention)

International (ipc 1-7): H01B5/08 H01B7/00

CPC: H01B7/0846 H01B7/30 H01B7/425 H01B9/006 H01B9/00 H01B7/00 H01B9/04

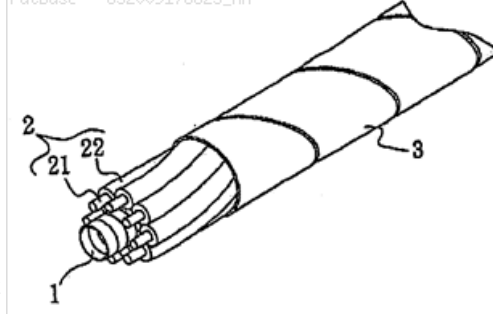
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US: 174/113.00R 174/113.00RP 174/113C 174/113R 174/74R

JP F-Term: 3B153 3B153/AA01 3B153/AA38 3B153/AA45 3B153/BB15 3B153/CC11 3B153/CC54 3B153/CC55 3B153/DD30 3B153/FF39 5G315 5G315/AA01 5G315/DA02 5G315/DB02 5G315/DC03 5G377 5G378 5G378/AA03

JP F-Index: D07B1/12 H01B7/30 H01B7/34/C H01B7/42/C H02G15/20/Z

PatBase - US2009178825_AA

**Family:**

Publication number	Publication date	Application number	Application date
EP2081196 A2	20090722	EP20090150320	20090109
EP2081196 A3	20100818	EP20090150320	20090109
IN00052KO2009 A	20090731	IN2009KO00052	20090109
JP2009170426 A2	20090730	JP20090006911	20090115
KR20090078755 A	20090720	KR20090002954	20090114
TWM340532 Y	20080911	TW20080200938U	20080115
US2009178825 AA	20090716	US20090349162	20090106
US7772495 BB	20100810	US20090349162	20090106
VN12321 A1	20140225	VN20090000083	20090113

Priority:

TW20080200938U 20080115

Probable Assignee: WU JENG SHYONG ; LIU LI WEN ; LIU WEI JEN

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Assignee(s): LIOU LI WEN ; LIOU WEI REN ; WU JENG SHYONG ; LIU LI WEN ; LIU WEI JEN ; WU JENG SHIUNG

Inventor(s): (std): WU ZHENG XIONG ; LIU WEI REN ; LIU WOI JEN ; LIU LI WEN ; LIU WEI JEN ; WU JENG SHYONG

Inventor(s): LIOU WEI REN ; WU JENG SHIUNG ; LIOU LI WEN

Agent(s): VIERING JENTSCHURA AND PARTNER; MCGLEW AND TUTTLE PC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

Title: HYBRID CABLE FOR CONVEYING DATA AND POWER

Abstract: Hybrid cables for conveying data and conducting operating power to electrically powered devices and a vehicle utilizing such cables are disclosed.

Classifications:

International (ipc 8-9): B60R B60R16/03 G06F1/26 G06F11/00

G06F11/30 H01B H01B11/00 H01B11/02 H01B7/00 H01B7/22 H01B9/00

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H04B3/54 H04L12/24 H04L12/26 H04L12/28

H04L29/08 (Advanced/Invention);

B60R16/03 H01B9/00 H01R13/648 H01R9/05 H04L12/26 (Core/Invention);

B60R (Subclass/Invention)

International (ipc 1-7): B60R16/03 H01B9/00

CPC: H01B9/003 H01B9/04 B60R16/0207 H04L41/0253 G06F1/266

G06F11/3013 H04L67/02 B60R16/03 H01B5/12 H01B7/0208 H01B9/006 Y02T90/14 H04L12/28

European: B60R16/02C B60R16/03 H01B9/00C T01B9/04

US: 174/105.00RP 174/105R 174/113R 370/230 370/230P 370/241

370/241P 439/578 439/607 439/607.01 700/286 701/29.1 701/34.4

709/220 709/224

JP F-Term: 5E018 5E047 5G309 5G309/FA05 5G309/KA02 5G313

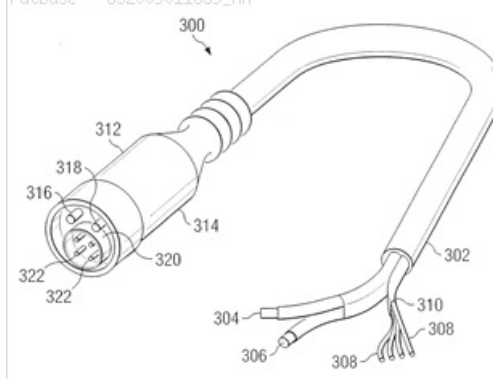
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5K046 5K046/AA03 5K046/BB05 5K046/PS03

JP F-Index: H01B11/02 H01B7/00/306 H01B7/00/310 H01B7/22 H01R11/11/G H01R11/11/H H01R35/00/A H01R35/00/M H04B3/54

PatBase - US2009011639_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2008259420 AA	20081211	AU20080259420	20080806
AU2008259420 BB	20130509	AU20080259420	20080806
AU2008259421 AA	20081211	AU20080259421	20080806
AU2013213739 AA	20130829	AU20130213739	20130809
CA2693780 AA	20081211	CA20082693780	20080806
CA2693784 AA	20081211	CA20082693784	20080806
CN101855109 A	20101006	CN200880101353	20080806
CN101855109 B	20131106	CN200880101353	20080806
CN101933102 A	20101229	CN200880101355	20080806
CN101933102 B	20120829	CN200880101355	20080806
EP2167350 A2	20100331	EP20080789010	20080806
EP2176868 A2	20100421	EP20080789014	20080806
HK1138813 A1	20100903	HK20100105601	20100608
HK1143241 A1	20101224	HK20100109673	20101013
IN00106DN2010 A	20100806	IN2010DN00106	20100106
IN00107DN2010 A	20100806	IN2010DN00107	20100106
JP2011522352 T2	20110728	JP20100510909T	20080806
JP2011522443 T2	20110728	JP20100510908T	20080806
JP5391193 B2	20140115	JP20100510908T	20080806
JP5543337 B2	20140709	JP20100510909T	20080806
KR20110004349 A	20110113	KR20107000224	20080806
KR20110004350 A	20110113	KR20107000250	20080806
US2009011639 AA	20090108	US20080134454	20080606
US2009016216 AA	20090115	US20080134424	20080606
US2010319956 AA	20101223	US20100820875	20100622
US2011176428 AA	20110721	US20110074965	20110329
US2014222976 AA	20140807	US20130016983	20130903
US7740501 BB	20100622	US20080134454	20080606
US7940673 BB	20110510	US20080134424	20080606
US8303337 BB	20121106	US20100820875	20100622
US8526311 BB	20130903	US20110074965	20110329
WO08149235 A2	20081211	WO2008IB02056	20080806
WO08149235 A3	20090312	WO2008IB02056	20080806
WO08149235 A8	20100401	WO2008IB02056	20080806
WO08149236 A2	20081211	WO2008IB02060	20080806
WO08149236 A3	20090430	WO2008IB02060	20080806
WO11163392 A2	20111229	WO2011US41489	20110622
WO11163392 A3	20120412	WO2011US41489	20110622
ZA201000108 A	20111026	ZA20100000108	20100106
ZA201000109 A	20110629	ZA20100000109	20100106
ZA201104940 A	20140326	ZA20110004940	20110705

Priority:

US20070933358P	20070606	US20080134454	20080606	US20080134424	20080606
AU20080259420	20080806	WO2008IB02056	20080806	WO2008IB02060	20080806
US20100820875	20100622	US20110074965	20110329	AU20130213739	20130809
US20130016983	20130903				

Probable Assignee: VEEDIMS LLC

Assignee(s): (std): BALLARD CLAUDIO R ; CLAUDIO BALLARD ; SARGENT ANDREW P ; SEWARD JEFFREY N ; VEEDIMS LLC

Assignee(s): CLAUDIO R BALLARD

Inventor(s): (std): BALLARD CLAUDIO R ; SEWARD JEFFREY N ; SARGENT ANDREW P

Inventor(s): JEFFREY N SEWARD ; ANDREW P SARGENT ; CLAUDIO R BALLARD

Agent(s): FB RICE; FB RICE PTY LTD; UEXKUELL AND STOLBERG; DEACONS; SOGA MICHIHARU; HOWISON AND ARNOTT LLP; ARNOTT JOHN J

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 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 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 PE PG PH PL PT RO RS RU 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

7) Family number: 56547712 (US2015302953A)

© PatBase

Title: SELF-SUPPORTING CABLE AND COMBINATION COMPRISING A SUSPENSION ARRANGEMENT AND SUCH SELF-SUPPORTING CABLE

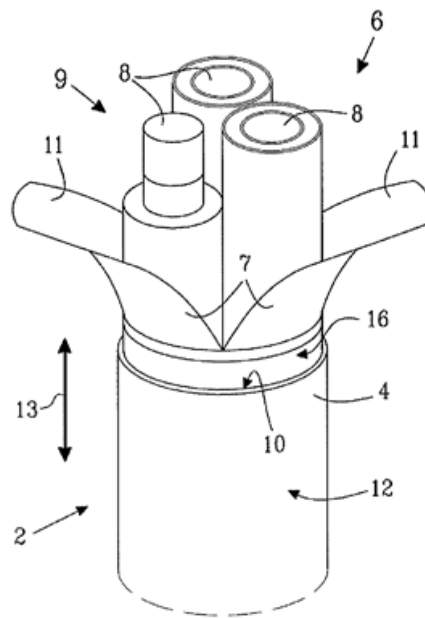
Abstract: A self-supporting cable including an outer portion and an inner portion is provided, as well as a combination of a self-supporting cable and a suspension arrangement. The inner portion includes at least one insulated conductor and the outer portion includes a first inner surface and an external surface. The external surface is arranged to engage with a suspension arrangement. The inner portion includes a first outer surface, the first outer surface abutting against the first inner surface. The outer portion includes an outer layer and a metal tape adhered to the outer layer. The outer layer includes the external surface, and the metal tape includes the first inner surface. The first inner surface being of metal and adapted for, during local load, frictional engagement with the material of the first outer surface increases the effectiveness of a functional grip between first outer surface and first inner surface.

Classifications:

International (IPC 8-9): H01B7/02 H01B7/18 H01B9/00 H01B9/02

H02G15/02 H02G15/08 (Advanced/Invention);
H01B7/00 H01B9/00 (Core/Invention)
CPC: H01B7/1875 H01B7/0225 H01B9/006 H01B7/184 H01B9/008
H01B7/188 H01B7/1825
US: 174/102R 174/70R

PatBase - US2015302953_AA



Family:

Publication number	Publication date	Application number	Application date
AU2013349610 AA	20140530	AU20130349610	20131125
AU2013349610 BB	20170914	AU20130349610	20131125
BR112015011630 A2	20170711	BR20151111630	20131125
CA2892036 AA	20150520	CA20132892036	20131125
CY1118453 T1	20170712	CY20171100056T	20170117
DE602013013629 D1	20161215	DE201360013629T	20131125
DK2923364 T3	20170213	DK20130795752T	20131125
EP2923364 A1	20150930	EP20130795752	20131125
EP2923364 B1	20161102	EP20130795752	20131125
ES2611778 T3	20170510	ES20130795752T	20131125
HR20170036 T1	20170310	HR20170000036	20170110
HU031295 T2	20170628	HU20130795752T	20131125
LT2923364 T	20170410	LT20130795752T	20131125
NZ709130 A	20170929	NZ20130709130	20131125
PL2923364 T3	20170331	PL20130795752T	20131125
PT2923364 T	20170110	PT20130795752T	20131125
RS55611 B1	20170630	RS20170000058	20131125
RU2015124197 A	20170110	RU20150124197	20131125
RU2658638 C2	20180622	RU20150124197	20131125
SI2923364 T1	20170531	SI20130030476	20131125
TR201700795 T4	20170221	TR20170000795T	20131125
US2015302953 AA	20151022	US20130647299	20131125
US9514861 BB	20161206	US20130647299	20131125
WO14080019 A1	20140530	WO2013EP74646	20131125
WO14081361 A1	20140530	WO2012SE51297	20121123

Priority:

WO2012SE51297 20121123 EP20130795752 20131125 WO2013EP74646 20131125

Probable Assignee: NKT CABLES GROUP A S

Assignee(s): (std): NKT CABLES GROUP AS ; NKT KEJBLZ GRUP AS

Assignee(s): NKT KEJBLZ GRUP A S ; STROM BENGTT ; EFRAIMSSON LARS ; NKT CABLES GROUP A S

Inventor(s): (std): STROEM BENGTT ; EFRAIMSSON LARS ; STROM BENGTT ; LARS EFRAIMSSON ; BENGTT STROEM ; STROM BENGTT

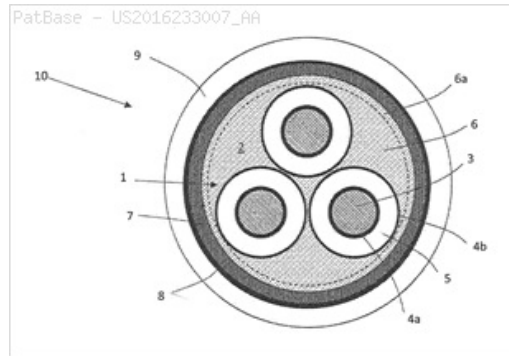
Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; MARKS AND CLERK; HEGNER AND PARTNERS A S; DE ELZABURU ALBERTO; OOO YURIDICHESKAYA GORODISSKIY I PARTNERNY FA; UGUR GUERSAD YALCINER; BUCHANAN INGERSOLL AND ROONEY PC

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

Abstract: The present disclosure relates to an impact resistant, multipolar power cable (10) comprising, a plurality of cores (1), each core (1) comprising at least one conductive element (3) and an electrical insulating layer (5) in a position radially external to the at least one conductive element (3). The cores (1) are stranded together so as to form an assembled element providing a plurality of interstitial zones (2). An expanded polymeric filler (6) fills the interstitial zones (2) between the plurality of cores (1). An expanded impact resistant layer (7) is in a position radially external to the expanded polymeric filler (6) and comprises a polymer that differs from the expanded polymeric filler (6).

Classifications:

International (IPC 8-9): H01B13/14 H01B13/24 H01B17/18 H01B3/44 H01B7/02 H01B7/18 H01B7/295 H01B9/00 (Advanced/Invention); H01B7/295 (Advanced/Non-invention)
CPC: H01B7/18 H01B9/006 H01B7/0225 H01B3/443 H01B3/445 H01B3/441 H01B13/24 H01B13/141 H01B7/189 H01B7/295 H01B13/142 H01B7/1825
US: 1/1 174/116



Family:

Publication number	Publication date	Application number	Application date
AU2013400927 A1	20150326	AU20130400927	20130923
AU2013400927 AA	20150326	AU20130400927	20130923
AU2013400927 BB	20181025	AU20130400927	20130923
BR112016006186 A2	20170801	BR20161106186	20130923
CA2924618 AA	20160316	CA20132924618	20130923
CN105849826 A	20160810	CN201380080337	20130923
CN105849826 B	20171212	CN201380080337	20130923
DE602013029200 D1	20171221	DE201360029200T	20130923
DK3050064 T3	20180205	DK20130798726T	20130923
EP3050064 A1	20160803	EP20130798726	20130923
EP3050064 B1	20171108	EP20130798726	20130923
ES2658220 T3	20180308	ES20130798726T	20130923
GC7733 A	20180507	GC2014P027949	20140918
NZ719343 A	20190222	NZ20130719343	20130923
RU2016115550 A	20171030	RU20160115550	20130923
RU2638172 C2	20171212	RU20160115550	20130923
US2016233007 AA	20160811	US20130023937	20130923
US9947438 BB	20180417	US20130023937	20130923
WO15040448 A1	20150326	WO20131B02426	20130923

Priority:

EP20130798726 20130923 WO20131B02426 20130923

Probable Assignee: PRYSMIAN SPA

Assignee(s): (std): PRIZMIAN S P A ; PRYSMIAN SPA ; PRYSMIAN S P A

Assignee(s): AVERILL CHRIS ; CINQUEMANI PAUL ; MAUNDER ANDREW ; TRUONG RYAN ; PRIZMIAN SPA

Inventor(s): (std): CINQUEMANI PAUL ; AVERILL CHRIS ; TRUONG RYAN ; MAUNDER ANDREW ; CHRIS AVERILL ; ANDREW MAUNDER ; PAUL CINQUEMANI ; RYAN TRUONG ; AVERILL KRIS ; MONDER ENDRYU ; SINKEMANI POL ; TRUONG RAJAN

Inventor(s): AVERILL CHRIS LEXINGTON ; MAUNDER ANDREW LEXINGTON ; CINQUEMANI PAUL LEXINGTON ; TRUONG RYAN LEXINGTON

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; KIRBY EADES GALE BAKER; GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; BOTTERO CARLO; CARPINTERO MARIO; SABA AND CO TMP; OOO YURIDICHESKAYA GORODISSKI I PARTNER Y FA; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

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 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

9) Family number: 73153759 (CN109326375A)

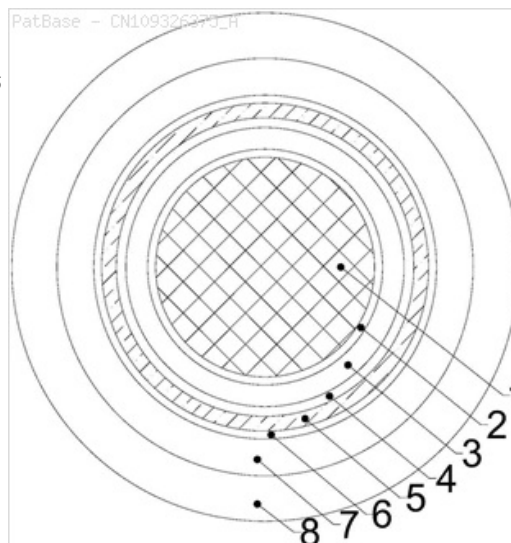
© PatBase

Title: FLEXIBLE SUPER-A-CLASS ALUMINUM ALLOY CORE IN-VEHICLE HIGH-VOLTAGE CABLE FOR NEW ENERGY AUTOMOBILE

Abstract: The invention relates to the technical field of cables, in particular to a flexible super-A-class aluminum alloy core in-vehicle high-voltage cable for a new energy automobile. The high-voltage cable comprises an aluminum alloy conductor, a first lapping isolation paper layer, an anti-peeling silicon rubber insulating layer, an aluminum-plastic composite belt shielding layer, a tinned copper wirebraid layer, a second lapping isolation paper layer, a ceramic silicon rubber inner sheath and an outer sheath, wherein the first lapping isolation paper layer, the anti-peeling silicon rubber insulating layer, the aluminum-plastic composite belt shielding layer, the tinned copper wire braid layer, the second lapping isolation paper layer, the ceramic silicon rubber inner sheath and the outer sheath sequentially wrap the outside of the aluminum alloy conductor, and the outer sheath 8 is a glass fiber yarn layer and carbon-silicon composite coating. The high-voltage cable is good in flexibility and shielding performance, environmentally friendly, non-toxic and excellent in fire resistance.

Classifications:

International (IPC 8-9): H01B1/02 H01B7/02 H01B7/04 H01B7/18
H01B7/29 H01B7/295 H01B7/38 H01B9/00 H01B9/02 (Advanced/Invention)
CPC: H01B9/02 H01B1/023 H01B7/02 H01B7/041 H01B7/183 H01B7/1835
H01B7/1865 H01B7/1875 H01B7/188 H01B7/29 H01B7/295 H01B7/38
H01B9/006 H01B9/024

**Family:**

Publication number	Publication date	Application number	Application date
CN109326375 A	20190212	CN201811171912	20180929

Priority:

CN201811171912 20180929

Probable Assignee: ANHUI PACIFIC CABLE CO LTD

Assignee(s): (std): ANHUI PACIFIC CABLE CO LTD

Assignee(s): ANHUI PACIFIC CABLE CO

Inventor(s): (std): HUI JUNHENG ; MIAO PENGSHENG ; JIANG RENZHANG ; ZHOU SHAN ; TIAN ZHAOYANG ; QIN DAOGUANG

10) Family number: 70136334 (CN108182989A)

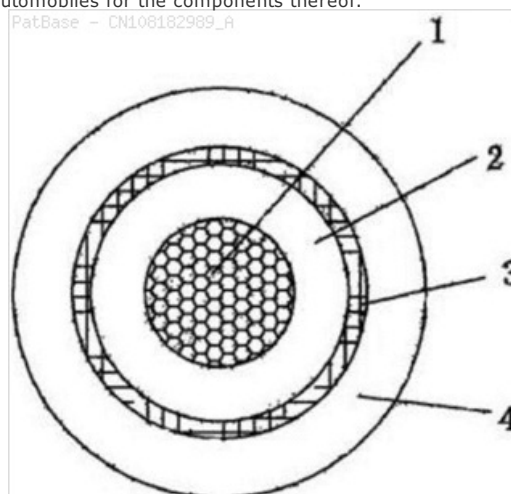
© PatBase

Title: MULTI-COPPER CONDUCTOR CORE INTEGRATED BEAM STRANDED AUTOMOBILE CABLE

Abstract: A multi-copper conductor core integrated beam stranded automobile cable of the present invention comprises a core body and adopts a multi-core integrated beam stranded copper conductor as the core body, an elastic insulating layer is extruded on the exterior of the core body, a shielding layer formed by knitting the manganese plated white copper wires wraps the elastic insulating layer, and the irradiation cross-linked polyolefin is extruded on the shielding layer or even on the exterior as a sheath layer. The raw materials of the present invention all adopt the low-smoke, halogen-free, flameretardant and environment friendly materials, thereby satisfying the usage requirements of the new energy automobiles for the components thereof.

Classifications:

International (IPC 8-9): H01B7/02 H01B7/04 H01B7/18 H01B7/28
H01B7/295 H01B9/00 H01B9/04 (Advanced/Invention)
CPC: H01B9/04 H01B7/0275 H01B7/04 H01B7/18 H01B7/28 H01B7/295
H01B9/006

**Family:**

Publication number	Publication date	Application number	Application date
CN108182989 A	20180619	CN201711429545	20171226

Priority:

CN201711429545 20171226

Probable Assignee: ZHENGZHOU RIYUE INFORMATION TECH CO LTD

Assignee(s): (std): ZHENGZHOU RIYUE INFORMATION TECH CO LTD

Assignee(s): ZHENGZHOU RIYUE INFORMATION TECHNOLOGY CO ; INFORMATION TECHNOLOGY CO LTD ZHENGZHOU MOON

Title: ELECTRICAL CABLE

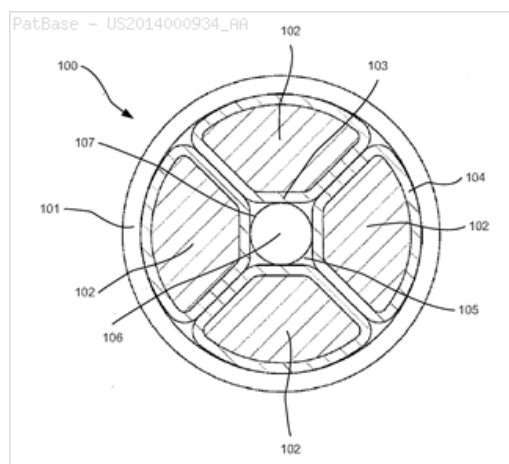
Abstract: An electrical cable (100) is provided. The cable has an electrically insulating outer jacket (101), and a number of phase conductors (102) arranged within the outer jacket (101). The phase conductors (102) extend along the longitudinal extension of the cable (100), and the phase conductors (102) are individually provided with an outer electrically insulating sheath (104). The phase conductors (102) are arranged within the outer jacket (101) such that a central space (105) is formed between the phase conductors (102), and an earth conductor (106) is arranged in the central space. The earth conductor has electrically conducting twinned strands.

Classifications:

International (IPC 8-9): H01B7/00 H01B7/282 H01B7/32 H01B9/00 H01B9/04 (Advanced/Invention)

CPC: H01B9/006 H01B9/04

US: 174/115



Family:

Publication number	Publication date	Application number	Application date
AU2013206369 AA	20140116	AU20130206369	20130617
CA2820276 AA	20140102	CA20132820276	20130628
DE602013034366 D1	20180412	DE201360034366T	20130614
EP2682952 A1	20140108	EP20130305807	20130614
EP2682952 B1	20180314	EP20130305807	20130614
ES2672937 T3	20180618	ES20130305807T	20130614
SE201250748 A1	20140103	SE20120050748	20120702
SE537221 C2	20150303	SE20120050748	20120702
US2014000934 AA	20140102	US20130922615	20130620

Priority:

SE20120050748 20120702 EP20130305807 20130614 CA20132820276 20130628

Probable Assignee: NEXANS

Assignee(s): (std): NEXANS

Assignee(s): BEXELL PER

Inventor(s): (std): BEXELL PER

Inventor(s): PER BEXELL

Agent(s): HALFORDS IP; ROBIC; GAUER PIERRE; LEHMANN MARIA ISABEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

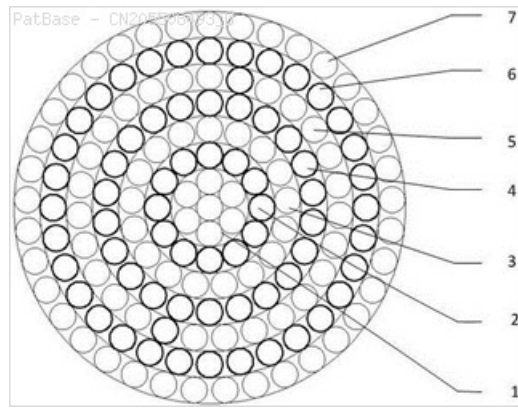
Title: SAVING ENERGY AND DECREASING LOSS LARGE SIZE CONDUCTOR SUITABLE FOR EXCHANGE SUBMARINE CABLE

Abstract: The utility model discloses a saving energy and decreasing loss large size conductor suitable for exchange submarine cable, including being the central round copper wire layer that the concentric circles distributes from inside to outside in proper order, first enameled wire isolation layer, a round copper wire layer, second enameled wire isolation layer, the 2nd round copper wire layer, third enameled wire isolation layer and the 3rd round copper wire layer, through enameled wire and for cable fiber insulation paper, it waits and to cut apart a plurality of concentric rings that the area is similar with big cross -section cable? conductor to block water the area, reduce skin effect, reduce the increase of resistance, big cross -section interchange submarine cable's operation loss can reduce substantially, reduce the line loss, the efficiency of the transmission of electricity is improved, and has a good application prospect.

Classifications:

International (IPC 8-9): H01B7/02 H01B7/14 H01B7/282 H01B7/285 H01B7/30 H01B9/00 (Advanced/Invention)

CPC: H01B9/006 H01B7/0225 H01B7/14 H01B7/2825 H01B7/285 H01B7/303 Y02A30/14



Family:

Publication number	Publication date	Application number	Application date
CN105679450 A	20160615	CN201610177281	20160328
CN205508493 U	20160824	CN201620238533U	20160328

Priority:

CN201610177281 20160328 CN201620238533U 20160328

Probable Assignee: NANJING NARI GROUP CORP

Assignee(s): (std): NANJING NARI GROUP CORP

Inventor(s): (std): JIANG ZHENXING ; LI DONG ; YANG LIMING ; ZHU ZHIEN

13) Family number: 62191666 (US2017236622A)

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Title: CABLE

Abstract: Provided is a cable including: at least two signal cables formed of first and second signal cables for differential transmission; a third cable for ground; a fourth cable for power supply; a metal sheet adapted to cover the first and second signal cables; a coating material adapted to house the first and second signal cables covered with the metal sheet, and the third and fourth cables; and a magnetic powder-mixed resin filled into an inner space of the coating material and prepared by mixing magnetic powder with a resin.

Classifications:

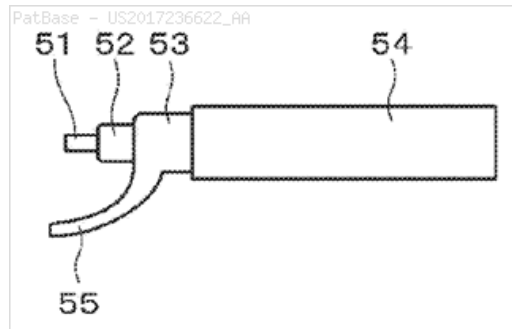
International (IPC 8-9): H01B1/02 H01B11/00 H01B11/02 H01B11/06 H01B11/18 H01B11/20 H01B7/00 H01B7/02 H01B7/17 H01B7/18 H01B9/00 H05K9/00 (Advanced/Invention)

CPC: H01B1/026 H01B11/146 H05K9/0098 H01B9/006 H01B11/02 H01B11/1895 H01B11/20 H05K9/0075

US: 1/1 174/107

JP F-Term: 5G309 5G309/DA08 5G309/KA02 5G309/MA18 5G313 5G313/AB05 5G313/AC03 5G313/AC07 5G313/AC11 5G313/AD02 5G313/AE08 5G319 5G319/EB02 5G319/EC02 5G319/EC12 5G319/ED06

JP F-Index: H01B11/00/J H01B11/06 H01B7/00/304/Z H01B7/00/310 H01B7/02/Z H01B7/18/D H01B7/18/H



Family:

Publication number	Publication date	Application number	Application date
CN107112076 A	20170829	CN201580055782	20151020
CN107112076 B	20190517	CN201580055782	20151020
JP2016063520 A1	20170803	JP20160555084T	20151020
JP6571675 B1	20190904	JP20160555084T	20151020
US2017236622 AA	20170817	US20150519415	20151020
US9934888 BB	20180403	US20150519415	20151020
WO16063520 A1	20160428	WO2015JP05281	20151020

Priority:

JP20140215031 20141022 WO2015JP05281 20151020

Probable Assignee: SONY SEMICONDUCTOR SOLUTIONS CORP

Assignee(s): (std): SONY CORP ; SONY SEMICONDUCTOR SOLUTIONS CORP

Inventor(s): (std): TSUBOI SATORU ; YOSHINO YOSHITAKA ; MAKISHIMA MAKOTO ; MURAKAMI TOMOMICHI

Agent(s): SUGIURA MASATOMO; CHIP LAW GROUP; SUGIURA MASATOMO ET AL

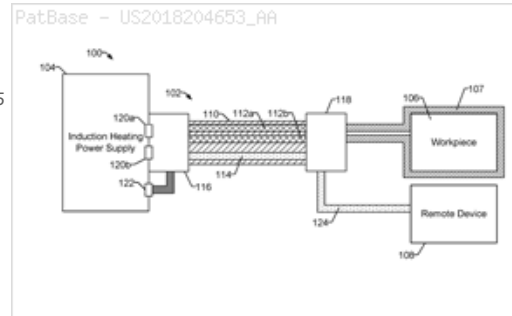
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Title: INDUCTION HEATING EXTENSION CABLES INCLUDING CONTROL CONDUCTORS

Abstract: Induction heating extension cables including control conductors are disclosed. An example cable assembly includes: a first plurality of conductors in a Litz cable arrangement; an outer protective layer configured to protect the plurality of conductors from physical damage; and a second plurality of conductors that are electrically isolated from the first plurality of conductors and are protected by the outer protective layer from physical damage.

Classifications:

International (IPC 8-9): B23K13/02 G05D23/26 H01B11/02 H01B11/18 H01B7/02 H01B7/17 H01B7/18 H01B7/30 H01B9/00 H01B9/02 H01B9/04 H04B3/54 H05B6/02 H05B6/06 H05B6/10 H05B6/14 (Advanced/Invention)
CPC: H01B9/003 H01B9/04 H05B6/10 H01B7/0216 H01B7/18 H01B7/0045 H05B6/101 H05B6/14 H05B6/06 H01B9/02 H04B2203/5487 H01B7/303 H04B3/542 H04B3/546 H05B6/02
US: 1/1 219/660



Family:

Publication number	Publication date	Application number	Application date
CA2992042 AA	20180717	CA20182992042	20180116
CN108337755 A	20180727	CN201810043813	20180117
EP3349542 A1	20180718	EP20180151995	20180117
MX2018000683 A1	20181109	MX20180000683	20180116
US2018204653 AA	20180719	US20180869220	20180112
US2018213611 AA	20180726	US20180928272	20180322
WO19183478 A1	20190926	WO2019US23587	20190322

Priority:

US20170447161P 20170117 US20180869220 20180112 US20180928272 20180322

Probable Assignee: ILLINOIS TOOL WORKS INC

Assignee(s): (std): ILLINOIS TOOL WORKS

Assignee(s): ILLINOIS TOOL WORKS INC ; SALSICH ANTHONY ; VERHAGEN PAUL

Inventor(s): (std): VERHAGEN PAUL ; SALSICH ANTHONY ; SALSICH ANTHONY V ; ANTHONY SALSICH ; PAUL VERHAGEN ; BERGEN SALSICH ANTHONY VAN

Agent(s): FINLAYSON AND SINGLEHURST; TRINKS OLE; PAHNKE CHAD A

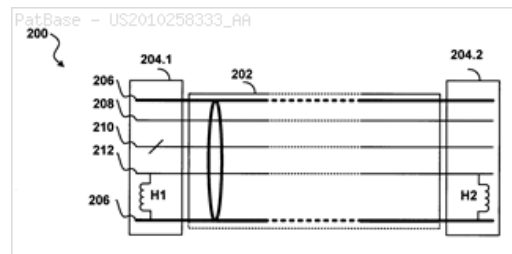
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML 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: HIGH SPEED DATA CABLE WITH SHIELD CONNECTION

Abstract: A high speed cable to carry signals according to the High-Definition Multimedia Interface and Universal Serial Bus 3.0 standards is disclosed. The cable includes a raw cable, having a conductive braid, a ground wire, signal lines; and two terminating assemblies at each end of the raw cable. The conductive braid is coupled to the ground wire in each of the terminating assemblies through a respective inductor to reduce the ground resistance of the cable, thus permitting construction of a thinner, lighter, and more flexible cable.

Classifications:

International (IPC 8-9): H01B11/10 H01B13/22 H01B7/00 H01B9/00 H01R43/00 H02G15/02 H04L25/02 (Advanced/Invention)
CPC: H01B9/006 H01B13/22 H01B11/1091 Y10T29/49117 Y10T29/49169
European: H01B11/10H
US: 1/1 174/110R 174/113R 174/32 174/36 174/78 174/78P 29/825 29/825S 29/854



Family:

Publication number	Publication date	Application number	Application date
US2010258333 AA	20101014	US20100656994	20100223
US2014000924 AA	20140102	US20130014187	20130829
US8546688 BB	20131001	US20100656994	20100223
US9324478 BB	20160426	US20130014187	20130829
WO10118807 A1	20101021	WO2010EP01610	20100315

Priority:

Probable Assignee: SPECTRA7 MICROSYSTEMS IRELAND SUCCESSOR IN INTEREST TO REDMERE TECHNOLOGY AS LTD

Assignee(s): (std): HORAN JOHN MARTIN ; MC DAID PADRAIG ; MC GOWAN DAVID ; MC GOWAN DAVID WILLIAM ; REDMERE TECHNOLOGY LTD ; MCGOWAN DAVID WILLIAM ; MCDAID PADRAIG ; MCGOWAN DAVID ; SPECTRA7 MICROSYSTEMS IRELAND LTD

Assignee(s): MIDCAP FINANCIAL TRUST AGENT AS ; COMERICA BANK A TEXAS BANKING ASSOCIATION AND AUTH ; COMERICA BANK A TEXAS BANKING ASSOCIATION AND AUTHORIZED FOREIGN BANK UNDER BANK ACT CANADA ; SPECTRA7 MICROSYSTEMS IRELAND SUCCESSOR IN INTEREST TO REDMERE TECHNOLOGY AS LTD

Inventor(s): (std): MC GOWAN DAVID ; MCGOWAN DAVID ; HORAN JOHN MARTIN ; MC GOWAN DAVID WILLIAM ; MC DAID PADRAIG ; MCDAID PADRAIG ; MCGOWAN DAVID WILLIAM

Agent(s): VICTORIA DONNELLY; TRELLIS IP LAW GROUP PC; WALSH FRANCES ET AL

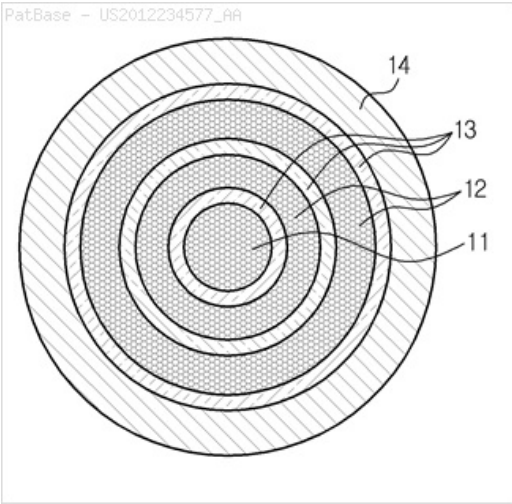
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16) Family number: 51932500 (US2012234577A) © PatBase

Title: HIGH FREQUENCY POWER CABLE

Abstract: Disclosed is a high frequency power cable including a central conductor centered in the cable having a plurality of metal strands twisted together in a cylindrical configuration, a conducting layer surrounding the periphery of the central conductor having a plurality of metal strands twisted together in a multilayered configuration, and an insulating layer surrounding the peripheries of the central conductor and the conducting layer.

Classifications:
International (IPC 8-9): H01B7/30 H01B9/00 H01B9/02
H01B9/04 (Advanced/Invention)
CPC: H01B9/04 H01B7/30 H01B7/0208 H01B7/17 H01B9/006 H01B9/02
H01B9/027
European: H01B9/04 T01B7/30
US: 174/113R



Family:

Publication number	Publication date	Application number	Application date
CN102682903 A	20120919	CN201210071574	20120316
KR20120105843 A	20120926	KR20110023520	20110316
US2012234577 AA	20120920	US20120417566	20120312

Priority:
KR20110023520 20110316

Probable Assignee: LS CABLE AND SYSTEM LTD

Assignee(s): (std): KIM HYUN WOONG ; LS CABLE LTD ; PARK CHAN YONG ; YANG SOO JUNG

Assignee(s): LS CABLE AND SYSTEM LTD

Inventor(s): (std): PARK CHAN YONG ; YANG SOO JUNG ; KIM HYUN WOONG ; HYUN WOONG KIM ; SOO JUNG YANG ; CHAN YONG PARK

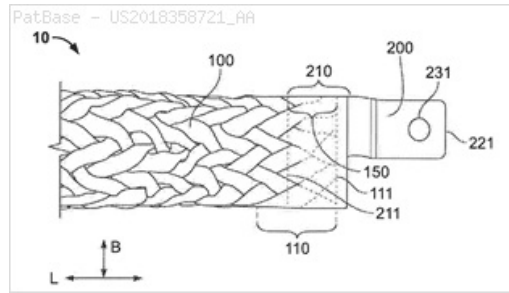
17) Family number: 72370006 (US2018358721A) © PatBase

Title: ELECTRICAL HIGH-CURRENT CONNECTOR AND METHOD FOR PRODUCING AN ELECTRICAL HIGH-CURRENT CONNECTOR

Abstract: A high-current electrical connector comprises a stranded wire and a connecting piece. The stranded wire has a longitudinal end section. The longitudinal end section of the stranded wire is incorporated in a material of the connecting piece.

Classifications:
International (IPC 8-9): B60R16/02 H01B13/00 H01B7/00 H01B7/02
H01B9/00 H01M2/20 H01R11/11 H01R11/12 H01R11/28 H01R13/03
H01R13/04 H01R13/10 H01R13/187 H01R35/02 H01R4/38 H01R4/58
H01R4/70 H01R43/00 (Advanced/Invention)
CPC: H01R11/288 H01R13/025 H01R43/0207 H01R11/12 H01B9/006
H01R43/00 H01R4/70 H01M2/206 H01M2220/20
US: 1/1 439/744

JP F-Term: 3D015 5E018 5E047 5E051 5E051/BA01 5E051/BB02 5G309 5G309/FA05 5G323
JP F-Index: B60R16/02/621/Z H01B13/00/521 H01B7/00/306 H01B7/02/C H01R11/11/D H01R35/02/B H01R43/00/B



Family:

Publication number	Publication date	Application number	Application date
CN109088035 A	20181225	CN201810599598	20180612
DE102017112947 A1	20181213	DE201710112947	20170613
EP3422479 A1	20190102	EP20180177226	20180612
IN201844021458 A	20181214	IN201844021458	20180608
JP2019033068 A2	20190228	JP20180109101	20180607
KR20180135809 A	20181221	KR20180066906	20180611
US2018358721 AA	20181213	US20180007281	20180613

Priority:

DE201710112947 20170613 JP20180109101 20180607 KR20180066906 20180611

Probable Assignee: TE CONNECTIVITY LTD

Assignee(s): (std): TE CONNECTIVITY GERMANY GMBH ; TE CONNECTIVITY LTD

Inventor(s): (std): DRESSEL ANDRE MARTIN ; KIOSCHIS KAI ; KAI KIOSCHIS ; ANDRE MARTIN DRESSEL

Agent(s): PATENTANWALTSKANZLEI WILHELM AND BECK

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

18) Family number: 59606025 (US2016141070A)

© PatBase

Title: HYBRID CABLE, METHOD FOR ITS MANUFACTURE AND USE OF SUCH A HYBRID CABLE

Abstract: An electric lead contains at least three conductors. Each of conductors has a line which is surrounded by a conductor sheath. Two of the conductors are embodied as signal conductors, and form, with a common partial lead sheath surrounding them, a first partial lead, in particular a signal lead. Another of the conductors is embodied as a power conductor and forms a second partial lead, in particular a power lead. The conductors are surrounded by a separating sleeve, which is in turn surrounded by a common sheath of the electric lead. The lead is characterized in that the partial lead sheath has an inner sheath section and an outer sheath section, and the outer sheath section is harder than the inner sheath section.

Classifications:

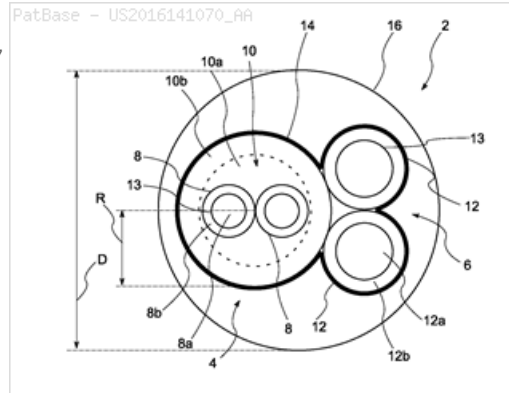
International (IPC 8-9): D07B1/14 H01B11/18 H01B13/00 H01B13/012 H01B13/22 H01B3/30 H01B3/44 H01B7/00 H01B7/02 H01B7/04 H01B7/17 H01B7/18 H01B7/24 H01B9/04 (Advanced/Invention)

CPC: H01B7/02 H01B11/1839 H01B3/30 H01B9/04 H01B7/0045 H01B3/441 H01B7/24 H01B13/22 H01B13/01209 H01B13/0036 H01B7/04 H01B7/1885

US: 1/1 174/72A 29/825 29/854

JP F-Term: 3B153 3B153/AA14 3B153/AA45 3B153/BB15 3B153/CC13 3B153/CC51 3B153/DD01 3B153/FF35 3B153/FF38 5G309 5G309/KA02 5G313 5G313/AB04 5G313/AC07 5G313/AD08 5G313/AE01 5G327 5G327/AA10 5G327/AC10

JP F-Index: D07B1/14 H01B13/22/Z H01B7/00/310 H01B7/18/H



Family:

Publication number	Publication date	Application number	Application date
BR112015030297 A2	20170822	BR20151130297	20140930
CN105408965 A	20160316	CN201480037339	20140930
CN105408965 B	20180807	CN201480037339	20140930
DE502014001111 D1	20160825	DE201450001111T	20140930
EP2954537 A1	20151216	EP20140790523	20140930
EP2954537 B1	20160713	EP20140790523	20140930
EP3109865 A1	20161228	EP20160176229	20140930
HU030216 T2	20170428	HU20140790523T	20140930
IN201647020422 A	20160831	IN201647020422	20160615
JP2016533007 T2	20161020	JP20160530554T	20140930
JP6209284 B2	20171004	JP20160530554T	20140930
KR101878406 B1	20180713	KR20167000046	20140930
KR20160019084 A	20160218	KR20167000046	20140930
MX2016008210 A1	20161021	MX2016008210	20140930

MX357560 B	20180713	MX20160008210	20140930
PH2016501207 A	20160822	PH20160501207	20160620
US2016141070 AA	20160519	US20160006311	20160126
US2017323702 AA	20171109	US20170659905	20170726
US9799424 BB	20171024	US20160006311	20160126
US10115498 BB	20181030	US20170659905	20170726
WO15090658 A1	20150625	WO2014EP70957	20140930

Priority:

DE201310226976 20131220 EP20140790523 20140930 WO2014EP70957 20140930
US20160006311 20160126 US20170659905 20170726

Probable Assignee: CONTINENTAL TEVES AND CO OGH AG

Assignee(s): (std): CONTINENTAL AG ; CONTINENTAL TEVES AND CO OGH AG ; CONTINENTAL TEVES AND CO OHG AG ; LEONI KABEL HOLDING GMBH

Assignee(s): CONTINENTAL TEVES AND COOHG AG

Inventor(s): (std): MARKUS HEIPEL ; HIDEKI SAKAI ; LAZHAR KAHOU LI ; AKIHIRO KOEDA ; SAKAI HIDEKI ; KOEDA AKIHIRO ; KAHOU LI LAZHAR ; HEIPEL MARKUS

Agent(s): FDST PATENTANWAE L TE FREIER DOERR STAMMLER TSCHIRWITZ PARTNERSCHAFT MBB; FDST PATENTANWAE L TE; HAYASHI TSUNENORI; DOI KENJI; LAURENCE A; RALPH E; WERNER H; GREENBERG LAURENCE A; STEMER WERNER H; LOCHER RALPH E

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

19) Family number: 70800582 (CN108417298A)

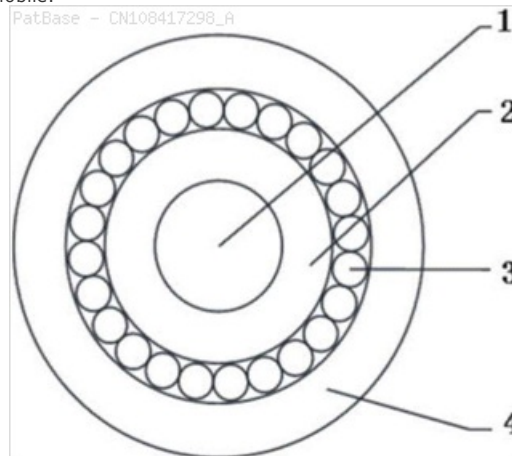
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Title: CABLE FOR NEW ENERGY AUTOMOBILE

Abstract: The invention discloses a cable for a new energy automobile, and belongs to the technical field of a power cable. A copper tape is wound around a carbon fiber rope by employing a gap winding mode on an outer surface of the carbon fiber rope to form a cable conductor core, 7-50 single conductors are twisted on the cable conductor core by taking the cable conductor core as a center to form a cable conductor, and the cable conductor is extruded and coated with an insulation layer to form the cable for the new energy automobile. The center of the cable conductor is the carbon fiber rope wrapped with the copper tape, and the structure is good in flexibility and high in tensile strength and has elasticity; meanwhile, by a skin effect of a current, the utilization ratio of the conductor is effectively improved; the insulation layer employs a thermoplastic polyester elastic body, and the cable is wide in temperature application range and is good in chemical medium corrosion resistance and aging resistance; and the cable is applicable to a power supply system in the new energy automobile.

Classifications:

International (IPC 8-9): H01B7/00 H01B7/02 H01B7/04 H01B7/18 H01B7/28 H01B9/00 (Advanced/Invention)
CPC: H01B7/04 H01B7/0018 H01B7/0045 H01B7/0275 H01B7/1825 H01B7/28 H01B7/2806 H01B7/2813 H01B9/006



Family:

Publication number	Publication date	Application number	Application date
CN108417298 A	20180817	CN201810173589	20180302

Priority:

CN201810173589 20180302

Probable Assignee: CHEN JINHUA

Assignee(s): (std): CHEN JINHUA

Inventor(s): (std): CHEN JINHUA

20) Family number: 72441256 (CN208706264U)

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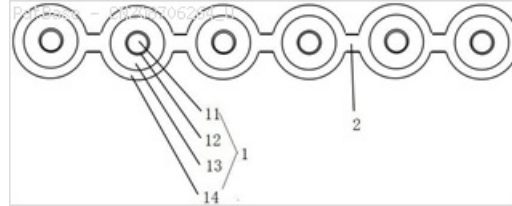
Title: WISDOM ENERGY TYPE BUOYANT CABLE ON WATER

Abstract: The utility model discloses a wisdom energy type buoyant cable on water, including six roots of sensation insulation core, mutual parallel arrangement, insulation core from interior to exterior is conductor, band, insulating layer and restrictive

coating in proper order, connect the front of a garment for five, insulation core connects gradually with the six roots of sensation. The utility model discloses a buoyancy of cable for increasing the cable, the assurance cable floats all the time on the surface of water, and the design has one to connect the front of a garment cable parallel arrangement between two insulation core, make to keep independent closely continuous again between cable core and the core promptly, has increased cable in contact with water's plane for the cable can float on the surface of water, and the electric power when guaranteeing waterborne operation can secure transmission.

Classifications:

International (IPC 8-9): H01B1/02 H01B7/00 H01B7/02 H01B7/04 H01B7/08 H01B7/12 H01B7/18 H01B7/28 H01B7/282 H01B7/285 H01B9/00 (Advanced/Invention)
CPC: H01B7/12 H01B1/02 H01B7/0009 H01B7/0045 H01B7/02 H01B7/04 H01B7/045 H01B7/0869 H01B7/1875 H01B7/28 H01B7/2813 H01B7/2825 H01B7/285 H01B9/006



Family:

Publication number	Publication date	Application number	Application date
CN109036645 A	20181218	CN201810904981	20180809
CN208706264 U	20190405	CN201821280709U	20180809

Priority:

CN201810904981 20180809 CN201821280709U 20180809

Probable Assignee: FAR EAST CABLE CO LTD

Assignee(s): (std): FAR EAST CABLE CO LTD ; FAR EAST COMPOSITE TECHNOLOGY ; NEW FAR EAST CABLE CO LTD

Assignee(s): NEW FAR EAST CABLE CO ; FAR EAST CABLE CO ; FAR EAST COMPOSITE TECHNOLOGY CO ; FAR EAST COMPOSITE TECHNOLOGY CO LTD

Inventor(s): (std): SHENG JINWEI ; ZHAO CHUNLI ; LIU LI ; LIU HUAJUN ; ZHOU BIN

21) Family number: 66233870 (CN106910555A)

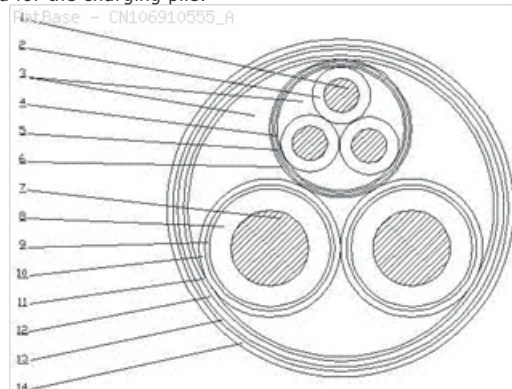
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Title: NEW ENERGY AUTOMOBILE CHARGING PILE CABLE

Abstract: The invention discloses a new energy automobile charging pile cable comprising a control wire core and power wire cores. An insulating layer extrudes outside each control wire core conductor so as to form a control insulating wire core. Three insulating wire cores are twisted and then a water-resistant tape wrapping layer, a shielding layer and a control cable core sheath are arranged in turn so as to form the control wire core. An insulating layer, a power wire core isolation layer and a power wire core shielding layer are arranged outside each power wire core conductor so as to form one power wire core. One control wire core and two power wire cores are twisted and then a water-resistant wrapping layer, an internal sheath, a fiber braided reinforcing layer and an external sheath are arranged from inside to outside in turn. Water-resistant expansion paste is filled between the control insulating wire cores and the water-resistant tape wrapping layer and between the core wire core, the power wire cores and the water-resistant wrapping layer. The characteristics of the cable are suitable for the working environment of a charging place, and the cable can normally work under the condition of pulling, bending, rolling, anti-corrosion and water-proof immersion and flame retarding so that the cable is an excellent cable used for the charging pile.

Classifications:

International (IPC 8-9): H01B11/00 H01B7/00 H01B7/02 H01B7/04 H01B7/17 H01B7/18 H01B7/28 H01B7/282 H01B7/288 H01B7/295 H01B7/36 H01B9/00 H01B9/02 (Advanced/Invention)
CPC: H01B7/041 H01B7/0009 H01B7/0045 H01B7/0275 H01B7/17 H01B7/184 H01B7/1865 H01B7/187 H01B7/1875 H01B7/2806 H01B7/2813 H01B7/2825 H01B7/288 H01B7/295 H01B7/36 H01B9/006 H01B9/024 H01B11/00



Family:

Publication number	Publication date	Application number	Application date
CN106910555 A	20170630	CN201710228112	20170410

Priority:

CN201710228112 20170410

Probable Assignee: ANHUI LINGYU CABLE TECH CO LTD

Assignee(s): (std): ANHUI LINGYU CABLE TECH CO LTD ; ANHUI LINGYU CABLE TECHNOLOGY CO LTD

Assignee(s): ANHUI LINGYU CABLE TECHNOLOGY CO

Inventor(s): (std): LI WANSONG

22) Family number: 74700254 (WO19109774A1)

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Title: METHOD FOR IMPROVING POWER TRANSMISSION EFFICIENCY

Abstract: Described by the present invention is a method for improving power transmission efficiency, which is mainly applied to the field of the power transmission. When a current passes through a current conductor, Joule heat is generated, causing energy loss. The size of the Joule heat is proportional to conductor resistance, and the conductor resistance is usually affected by temperature and decreases as the temperature goes down. The present invention uses a segmented refrigeration cycle to cool cables, such that the cable resistance decreases to reduce the Joule loss of a transmission conductor.

Classifications:

International (IPC 8-9): H01B7/02 H01B7/42 H01B9/00 H01B9/04 (Advanced/Invention)

CPC: H01B7/02 H01B7/42 H01B9/00 H01B9/04

Family:

Publication number	Publication date	Application number	Application date
CN109887669 A	20190614	CN201711273898	20171206
WO19109774 A1	20190613	WO2018CN114446	20181108

Priority:

CN201711273898 20171206

Probable Assignee: YAO WEIZHI

Assignee(s): (std): YAO WEIZHI

Inventor(s): (std): YAO WEIZHI ; INVENTOR HAS WAIVED RIGHT TO BE CITED

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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