



New connection on: : 11-08-2017 : 17:39:21 - Last disconnection on: : 11-08-2017 : 15:40:25

V 4.0.0.43847(LP,U,linux) (Rev:41675 2016-01-15 13:33:59 +0100#(D201706)) (RPM D201706)

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PN - [CN206096542U](#) U 20170412

PR - CN20162424505U 20160511

AP - CN20162424505U 20160511

DT - I

PA - YU HONG

TI - Optical **fiber fusion splicer**

AB - The utility model provides an optical **fiber fusion splicer**, including two focusing objective lens, two electrodes and **optic** fibre position adjustment mechanism, has the contained angle between two focusing objective lens for obtain electrode and **optic** fibre position signal, **optic** fibre position adjustment mechanism includes vertical step motor and horizontal step motor that optical **fiber** seat, longitudinal rail, transverse guide and drive optical **fiber** seat moved on longitudinal rail or transverse guide. The utility model discloses accurate and the speed butt **fusion** of two fibre core terminal surfaces alignment can the accuracy be distinguished to the fused **fiber** splice during use, adopt the high definition like first objective pixel, the magnification 500 more than doubly more clear wash rice find out fibre core list, the inside shape of multimembrane, butt **fusion fiber** loss is little, quality assurance, to the outdoor engineering construction, high capacity battery can satisfy the requirement of long -time butt **fusion** number of times. Complete machine outward appearance and inner space are concentrated, make the operator carry and go out to be under construction spry and light, and battery capacity is big, and empty benefit the internal is at present optimized in the live time extension.

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PN - [CN206096544U](#) U 20170412

PR - CN20162424507U 20160511

AP - CN20162424507U 20160511

DT - I

PA - YU HONG

TI - Optical **fiber fusion splicer**

AB - The utility model provides an optical **fiber fusion splicer**, the multi -functional **optic** fibre that sets up in it press from both sides and include that **optic** fibre holder and the **optic** fibre of locating on the **optic** fibre holder press from both sides work

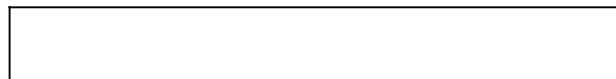
platform and presses the fibre piece, the **optic** fibre holder is located on the heat sealing machine through the locating pin, press fine piece to connect on the **optic** fibre holder through the rotation axis, the fine piece of pressure pushes down on **optic** fibre presss from both sides work platform along axis of rotation, and fine piece of pressure and **optic** fibre press from both sides and is equipped with magnetic force locking device between the work platform, presses the fibre piece to lock on **optic** fibre presss from both sides work platform through magnetic force locking device. The utility model discloses loaded down with trivial detailsly make the improvement to what current **optic** fibre of heat sealing machine butt **fusion** need trade anchor clamps, has solved original **optic** fibre and pressed from both sides the problem that work efficiency is low, its work burden that can alleviate inrow constructor greatly, especially at natural disasters with on purpose destroy under communication line's the condition, can let constructor rush repair linked network unblocked, be fit for frequency of utilization three the highest **optic** fibre, the butt **fusion** of tail optical **fiber**, naked fibre, rubber -sheathed lamp cord **optic** fibre promptly on the market at present.

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- PN - [CN206096539U](#) U 20170412
- PR - CN20162424502U 20160511
- AP - CN20162424502U 20160511
- DT - I
- PA - YU HONG
- TI - Novel optical **fiber splicer**
- AB - The utility model provides a novel optical **fiber splicer**, including the heat sealing machine body, the optical **fiber fusion splicer** of heat sealing machine body includes two focusing objective lens, two electrodes and **optic** fibre position adjustment mechanism, has the contained angle between two focusing objective lens for obtain electrode and **optic** fibre position signal, **optic** fibre position adjustment mechanism includes vertical step motor and horizontal step motor that optical **fiber** seat, longitudinal rail, transverse guide and drive optical **fiber** seat moved on longitudinal rail or transverse guide. The utility model discloses accurate and the speed butt **fusion** of two fibre core terminal surfaces alignment can the accuracy be distinguished to the fused **fiber** splice during use, adopt the high definition like first objective pixel, the magnification 500 more than doubly more clear wash rice find out fibre core list, the inside shape of multimembrane, butt **fusion fiber** loss is little, quality assurance, to the outdoor engineering construction, high capacity battery can satisfy the requirement of long -time butt **fusion** number of times. Complete machine outward appearance and inner space are concentrated, make the operator carry go out to be under construction spry and light.

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- PN - [CN205787220U](#) U 20161207
- PR - CN20162522298U 20160601
- AP - CN20162522298U 20160601
- DT - I
- PA - JI DEHAI
- TI - Multifunctional gripping device
- AB - The utility model discloses a



multifunctional gripping device sets up on the optical **fiber splicer**, multifunctional gripping device include the anchor clamps base and through the pivot connect in the anchor clamps gland of anchor clamps base top, be provided with the clamp plate on the anchor clamps gland and install spring between anchor clamps gland and the clamp plate, still be fixed with the anchor clamps support on the anchor clamps gland, be provided with the draw -in groove that is used for placing **optic** fibre on the anchor clamps base, the side of anchor clamps gland is installed has elastic anchor clamps presser foot. The utility model discloses a during the different **optic** fibre of multifunctional gripping device centre gripping, the anchor clamps presser foot can have different resilience value to the **optic** fibre of difference to push down the fibre core of **optic** fibre, the fibre core can not slided at will, thereby make **optic** fibre more stable, improved the butt **fusion** quality of smooth heat sealing machine greatly, simultaneously again can compatible butt **fusion** to multiple special **optic** fibre.

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PN - [CN205982729U](#) U 20170222

PR - CN20162970157U 20160827

AP - CN20162970157U 20160827

DT - I

PA - ZHEJIANG ANTS PREC TECH CO LTD

TI - Optical **fiber splicer** of electrostatic absorption V type groove dust

AB - The utility model discloses an optical **fiber splicer** of electrostatic absorption V type groove dust, including the host computer shell, the top of host computer shell is provided with butt **fusion** foreign shell, the top of butt **fusion** foreign shell is provided with the wind cap, one side of wind cap is provided with the spout, one side of spout

is provided with automatically controlled slider, one side of automatically controlled slider is provided with the connecting axle, one side of connecting axle is provided with automatically controlled axle, one side of automatically controlled axle is provided with the mount, one side of mount is provided with the pivot, one side of pivot is provided with automatically controlled runner, the outside of automatically controlled runner all is provided with the absorbent brush, the wind cap is connected through first cock and butt **fusion** foreign shell. The utility model discloses an absorbent brush can make the rubber friction static electrification adsorb the dust in the V type groove with high -speed rotatory automatically controlled runner, avoids the dust influence butt **fusion** quality of **optic** fibre, and dust -collecting box and the ion copper mesh static neutralization on with the absorbent brush falls and collect the dust, and easy operation is convenient, the work efficiency of improvement heat sealing machine.

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- PN - [CN205982730U](#) U 20170222
- PR - CN20162970172U 20160827
- AP - CN20162970172U 20160827
- DT - I
- PA - ZHEJIANG ANTS PREC TECH CO LTD
- TI - High -efficient clean and tidy type optical **fiber splicer**
- AB - The utility model provides a high -efficient clean and tidy type optical **fiber splicer**, including the butt **fusion** casing, be provided with table surface on the butt **fusion** casing, the last loose axle that is provided with of table surface, table surface is connected with the wind cap through the loose axle, be provided with the reflection lens on the wind cap, one side of reflection lens is provided with presses the hammer, the last heater that is provided with of table surface, the top of heater is provided with perspective type heater lid, the last butt **fusion** platform that is provided with of table surface, the butt **fusion** bench is provided with the LED bulb, table surface is last to be provided with the **optic** fibre groove of keeping in, the top that the groove was kept in to **optic** fibre is provided with the fine ware of pressure, the butt **fusion** bench is provided with solid fine clamp plate. The utility model provides a workman work that lead to can't be gone on or go on slowly because light is crossed secretly, keep in the strip through the **optic** fibre that sets up and temporarily deposit with the **optic** fibre of pressing fine ware to connect, arrange in order again after the work by the time and deposit, improved work efficiency greatly, the time of having practiced thrift makes operational environment not mixed and disorderly, messenger operational environment is clean and tidy.

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- PN - [CN205982728U](#) U 20170222
- PR - CN20162970090U 20160827
- AP - CN20162970090U 20160827
- DT - I
- PA - ZHEJIANG ANTS PREC TECH CO LTD
- TI - Anti low temperature optical **fiber splicer**
- AB - The utility model discloses an anti low temperature optical **fiber splicer**, which comprises an outer shell, the inside of shell is provided with the insulation can, the top of insulation can is provided with the piece that generates heat, the inside of insulation can is provided with the horizontal pole, be provided with the **optic** fibre

presser foot on the horizontal pole, the both sides of horizontal pole all are provided with the bolt, the inside at the through -hole is installed to the bolt, the inside of through -hole is provided with the convex spring leaf, the bottom of horizontal pole is provided with the butt **fusion** platform, the outside of butt **fusion** platform is provided with the handle, one side of handle is provided with and leads to fine hole, the opposite side that leads to fine hole is provided with the **optic** fibre anchor clamps, the bottom of butt **fusion** platform is provided with the slide rail. Butt **fusion** platform and insulation can be installed **optic** fibre anchor clamps, V - arrangement groove, electrode bar, LED lamp and CCD camera in the inside of heat sealing machine, and it externally can not heat retaining shortcoming not only to have solved current butt **fusion** ware installation, still have to install the advantage in order to reach the protection in inside with the important core component of heat sealing machine, the fine demand that has satisfied current in cold areas antagonism low temperature heat sealing machine.

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- PN - [CN205899072U](#) U 20170118
- PR - CN20162806290U 20160728
- AP - CN20162806290U 20160728
- DT - I
- PA - CHINA TELECOM CO LTD ANHUI BRANCH; ANHUI TELECOM DEVICE TRADE & IND CO LTD
- TI - Optical **fiber splicer** operation tray
- AB - The utility model discloses an optical **fiber splicer** operation tray, including the base, be connected with the backup pad on the base, the upper end of backup pad is connected with porous folding hanging and detains, wherein is equipped with the installation interface on the base as the installation region of optical **fiber splicer**, and the backup pad articulates and installs in the one end of base, the backup pad is beta structure. The utility model discloses structural design is simple and ingenious, hang to detain to carry on 90 foldingly, and it is folding that the backplate can carry out the secondary, through the riveting hinge, hangs to detain and shrinks to the top panel in with the back is collapsible, conveniently carries, can prevent optical **fiber splicer** during the operation unable limited fixed problem of laying on carrying out the pole, the high quality butt **fusion** of assurance **optic** fibre.

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- PN - [CN205594192U](#) U 20160921
- PR - CN20152969300U 20151130
- AP - CN20152969300U 20151130
- DT - I
- PA - CHAOGUANG (TIANJIN) INFORMATION TECH CO LTD
- TI - Explosion -proof optical **fiber splicer** of quick -open type
- AB - The utility model belongs to the technical field of the optical **fiber splicer** device, especially, relate to an explosion -proof optical **fiber splicer** of quick -open type, this explosion -proof optical **fiber splicer** of quick -open type, include: safe upper cover, the spring, the connecting rod, the slide rail, the magnetism piece hangs the piece, the hinge, the cantilever, the support, the work pilot lamp, the mounting hole, the butt **fusion** room, the optical **fiber splicer**, the power tightly stops the button, the switch, the wire, electromagnetic means, the mount, the locking mouth, it is used for installing multi -functional wiring board to have on the butt **fusion** room the mounting hole, the butt **fusion** indoor location has the optical **fiber splicer** the power

tightly stop the button with the switch, the utility model discloses it is rational in infrastructure, with strong points, adopt the quick -open type structure, reduced operating time, guaranteed the efficiency of using, fundamentally has solved the dangerous problem of using optical **fiber splicer** butt **fusion optic** fibre to exist in inflammable and explosive environment moreover, has extensive application prospect, is suitable for popularization and application.

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- PN - [CN205562873U](#) U 20160907
- PR - CN20162302322U 20160412
- AP - CN20162302322U 20160412
- DT - I
- PA - MAO CHAOJIE
- TI - Optical **fiber fusion splicer**
- AB - The utility model discloses an optical **fiber fusion splicer**, including casing and fastener, the right -hand member of casing inner chamber is equipped with fastener, the bottom of fastener inner chamber is equipped with force sensor, the middle -end of casing inner chamber is equipped with the pyrocondensation pipe, the bottom in the intraductal chamber of pyrocondensation is equipped with temperature sensor, there is the apron upper end of casing surface through hinge connection, the left end of casing surface is equipped with the display, the middle -end at casing surface top is equipped with the trick lock, the left side and the right side symmetry of casing surface are equipped with the hole, the bottom of casing surface is equipped with the supporting seat, inner cavity of a support base's left end is equipped with the battery, the upper left end of supporting seat surface is equipped with the controller, the left lower extreme of supporting seat surface is equipped with electrical socket. This optical **fiber fusion splicer** has set up force sensor, can carry out tensile test to **optic** fibre after the fused **fiber** splice is accomplished, has guaranteed the butt **fusion** quality, has ensured the safe in utilization of **optic** fibre.

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- PN - [CN205539573U](#) U 20160831
- PR - CN20162312724U 20160413
- AP - CN20162312724U 20160413
- DT - I
- PA - BENGBU DAOSHENG PREC PHOTOELECTRIC TECH CO LTD
- TI - A tray for cooling off **optic** fibre after butt **fusion**
- AB - A tray for cooling off **optic** fibre after butt **fusion**, it includes the loading board, cross the cab apron, two otic placodes of inverting L shape, the cross sectional shape of loading board is the U -shaped, cross the cab apron by the semicircle board, vertical board constitutes, under the opening side direction of semicircle board, the semicircle board is opened an actinal side and is met with loading board division actinal arbitrary side, the last side that actinal another side and vertical board were opened to the semicircle board meets, two symmetrical settings on that side of loading board is kept away from to vertical board of length direction that vertical board is followed to the otic placode, it has the peg hole to open in every otic placode. The cost of this tray is lower, and is comparatively convenient with being connected of optical **fiber splicer**, can satisfy the demand of cooling **optic** fibre after the butt **fusion**.

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PN - [CN204832577U](#) U 20151202
PR - CN20152650896U 20150826
AP - CN20152650896U 20150826
DT - I
PA - QUANZHOU YONGMAO ELECTRONIC TECHNOLOGY CO LTD
TI - Optical **fiber splicer**
AB - The utility model discloses an optical **fiber splicer**, include controller, driver circuit board, CPU control panel, high definition display screen, add heat channel and optical fibre **fusion splicer**, driver circuit board installs in the inside of main tank, and electrical property input connection director and CPU control panel, the controller pass through the wire respectively with high -pressure discharge device, alarm device and radiator fan electric connection, CPU control panel electrical property input connection optics focus system, add heat channel and optical fibre **fusion splicer** and install in control panel's top, and pass through wire and controller electric connection, button and the heat shrinkage bush type of discharging selects the button to inlay the top at right side keypad, the high definition display screen passes through bolt fastening the place ahead at control panel. This optical fibre **fusion splicer** can dissolve the **optic** fibre of processing multiple heat shrinkage bush, and the range of application is widened, adopts the optics focus system, and the accuracy finds the fused **fiber** splice position, reduces error and the loss of light borer.

13/24 © EPODOC / EPO

PN - [CN204790062U](#) U 20151118
PR - CN20152360761U 20150530
AP - CN20152360761U 20150530
DT - I
PA - LI LIANG
TI - Be equipped with **optic** fibre image device's optical **fiber splicer**
AB - The utility model discloses an **optic** fibre image device and be equipped with this **optic** fibre image device's optical **fiber splicer** belongs to the light heat sealing machine among the fused **fiber** splice technical field, and its aim at provides an **optic** fibre image device and is equipped with this **optic** fibre image device's optical **fiber splicer**, and it is relatively poor to solve the optical **fiber** splicing quality that exists among the prior art, technical problem that the operation that continues was had relatively high expectations to the user. Its technical scheme does: including the main part carrier, be provided with the **fiber** axis on the main part carrier to mechanical feed -in device and **optic** fibre image device, **optic** fibre image device includes and camera lens assembly, back bias lamp and mainboard is provided with the sensitization subassembly in the camera lens assembly, and sensitization subassembly and back bias lamp are located respectively treats butt **fusion optic** fibre both sides, and the sensitization subassembly is connected with the mainboard is electric, and the mainboard is connected to mechanical feed -in device is electric with the **fiber** axis. The utility model is suitable for an optical **fiber splicer** of optical **fiber** splicing.

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PN - [CN204694882U](#) U 20151007

PR - CN20152429104U 20150619
 AP - CN20152429104U 20150619
 DT - I
 PA - LUO CHUNHUI
 TI - Optical **fiber splicer** core
 AB - The utility model relates to a fused **fiber** splice field, optical **fiber splicer** core especially, it includes the frame, be provided with on the frame and be used for placing and aiming at two supports of treating butt **fusion optic** fibre, the other camera lens of observing **optic** fibre that is provided with of support, the support divide into two parts, place two **optic** fibre respectively, the support below is provided with cam mechanism, it makes two prong relative movement and aligns, **fiber** connection department between two supports of camera lens orientation, the camera lens is installed on the elastic construction with frame an organic whole, this elastic construction is constructed as to remove through the deformation band index glass head of self, and an accessible locking device keeps the state of deformation, the utility model discloses an utility model aim at provides a simple structure, practicality, optical **fiber splicer** core with low costs.

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PN - [CN204631287U](#) U 20150909
 PR - CN20152271352U 20150429
 AP - CN20152271352U 20150429
 DT - I
 PA - NANJING DVP OPTICAL & ELECTRONICAL TECH CO LTD
 TI - Fast open explosion -proof optical **fiber splicer**
 AB - The utility model discloses a fast open explosion -proof optical **fiber splicer**, including butt **fusion** room and safety upper cover to and locate locking device and the linkage between butt **fusion** room and the safety upper cover, the opening that is used for installing multi -functional wiring board has on the butt **fusion** room, the butt **fusion** indoor location has optical **fiber splicer**, power and switch, locking device and switch linkage, linkage includes mutual articulated support and cantilever, safety cover connection is connected with the cantilever through hang the piece. The utility model discloses a fast open architecture has reduced operating time, has guaranteed the efficiency of using, and the fundamentally solve peril problem that use optical **fiber splicer** butt **fusion optic** fibre exists in inflammable and explosive environment.

16/24 © EPODOC / EPO

PN - [CN204515186U](#) U 20150729
 PR - CN20152202447U 20150407
 AP - CN20152202447U 20150407
 DT - I
 PA - ZHAO YANGRI
 TI - Optical **fiber fusion splicer**
 AB - The utility model discloses an optical **fiber splicer** observes first **optic** fibre and second **optic** fibre through first camera lens and second camera lens to covering position input control module with first **optic** fibre and second **optic** fibre, whether the covering of more first **optic** fibre of control module and second **optic** fibre is aimed at, and it is right according to the comparative result to the covering a V

comprises of an enclosure wherein the top side of the enclosure is adapted to become door of the enclosure and a purging unit connected to the enclosure for performing pressure purging within the enclosure system, wherein the purging unit comprises a pressure purge unit, an air-pumping device, and pressure gauges. A **fusion splicer** and **fiber optic** cables to be spliced are installed inside the enclosure and the top side of the enclosure is locked and sealed using a sealing unit. The sealing unit is made of soft materials that conforms around the **fiber optic** cables to be spliced, hence do not damage the **fiber optic** cables. Using the purging unit of the enclosure system, flammable gas inside the **fiber** optics enclosure system is displaced with non-flammable air or inert gas. During splicing, the enclosure system also maintains positive pressure inside the enclosure, hence preventing any flammable gas from entering the enclosure. With the enclosure system, splicing of **fiber** optics can be done safely, even in a hazardous area, using the **fusion splicer** installed in the enclosure system. A method utilizing the enclosure system for splicing of **fiber** optics is also disclosed herein.

18/24 © EPODOC / EPO

PN - [US2013236147](#) A1 20130912

PNFP - US8998511 B2 20150407

PR - US201213654570 20121018; US20080159747 20080708

AP - US201213654570 20121018

DT - *; Rep

CT - || STSE (B2)

[US4265519](#) A 19810505 [] (POMERANTZEFF OLEG)

[US4742305](#) A 19880503 [] (STOLARCZYK LARRY G [US])
[US5570446](#) A 19961029 [] (ZHENG WENXIN [SE], et al)
[US5572313](#) A 19961105 [] (ZHENG WENXIN [SE], et al)
[US6186675](#) B1 20010213 [] (RUEGENBERG GERVIN [DE])
[US6399936](#) B1 20020604 [] (HANG ZHIJIANG [US], et al)
[US6788861](#) B1 20040907 [] (UTSUI TETSUYA [JP], et al)
[US6816244](#) B2 20041109 [] (ESMAEILI SASAN [SE])
[US7003200](#) B2 20060221 [] (HUANG WEI-PING [SE], et al)
[US7006741](#) B1 20060228 [] (YU BI [US])
[US7181111](#) B2 20070220 [] (AHRENS ROBERT GEORGE [US])
[US7245360](#) B2 20070717 [] (HUANG WEI-PING [SE], et al)
[US2003142934](#) A1 20030731 [] (PAN YINGTIAN [US], et al)
[US2003164939](#) A1 20030904 [] (ESMAEILI SASAN [SE])
[US2003172680](#) A1 20030918 [] (HUANG WEI-PING [SE], et al)
[US2004057680](#) A1 20040325 [] (HERSOUG ELLEF [SE], et al)
[US2005190371](#) A1 20050901 [] (KNUTTEL ALEXANDER [DE])
[US2005254754](#) A1 20051117 [] (HUANG WEI-PING [SE], et al)
[US2006051043](#) A1 20060309 [] (HUANG WEI-PING [SE], et al)
[US2006133760](#) A1 20060622 [] (HERSOUG ELLEF [SE], et al)
[US2006158655](#) A1 20060720 [] (EVERETT MATTHEW J [US], et al)
[US2006193435](#) A1 20060831 [] (HARA KENJI [JP], et al)
[US2007015969](#) A1 20070118 [] (FELDMAN MARC D [US], et al)
[US2008304788](#) A1 20081211 [] (MANNSTADT WOLFGANG [DE], et al)
[US2009010601](#) A1 20090108 [] (HUANG WEI-PING [SE], et al)

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[US7181111](#) B2 [];
[US7245360](#) B2 [];
[US2008304788](#) A1 [];
[US2009010601](#) A1 []

CCI - [G02B6/2551](#) ; [G02B6/2555](#)

PA - (A1)

ERICSSON TELEFON AB L M [SE]

- (B2)
TELEFONAKTIEBOLAGET L M ERICSSON PUBL [SE]; ERICSSON TELEFON AB L M [SE]
- TI - (A1 B2)
Cladding Alignment for **Fusion** Splicing Optical Fibers
- AB - (A1 B2)
In aligning ends of optical fibers, e.g. for performing a prealignment of ends of large mode area double-clad fibers (LMA-DCFs) in order to thereafter perform a core alignment process, in a **fiber optic fusion splicer** a best, optimum or near optimum position or setting of the optical system for observing the self-focusing effect is first determined and then the very alignment operation may be performed using the determined setting. The very alignment process may then be performed by adjusting stepwise the offset distance between the observed **fiber** ends by e.g. using a cascade technique.

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PN - [US2011226019](#) A1 20110922

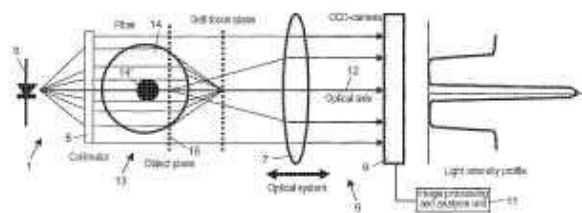
PNFP - US8596888 B2 20131203

PR - SE20050002950
20051230; WO2006SE01519
20061229

AP - US20060159738 20061229

DT - **

CT - || STSE (B2)
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] (RETINA FOUNDATION)
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] (SIEMENS AG [US])
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] (PENTAX CORP [JP])
[US7003200](#) B2 20060221 [
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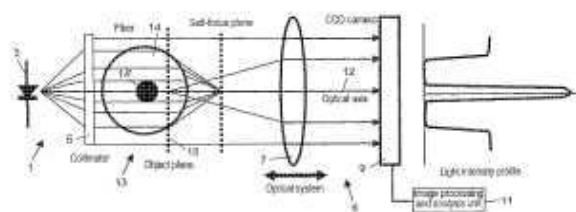


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[US2002164132](#) A1 20021107
[] (TIAN YONG [FR])
[US2003142934](#) A1 20030731
[] (CARNEGIE MELLON
UNIVERSITY AND [US])
[US2003164939](#) A1 20030904
[] (ESMAEILI SASAN [SE])
[US2003172680](#) A1 20030918
[] (HUANG WEI-PING [SE], et
al)
[US2004057680](#) A1 20040325
[] (ERICSSON TELEFON AB L M
[US])
[US2005047725](#) A1 20050303
[] (AHRENS ROBERT GEORGE
[US])
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[] (KNUTTEL ALEXANDER [DE])
[US2005254754](#) A1 20051117
[] (HUANG WEI-PING [SE], et
al)
[US2006051043](#) A1 20060309
[] (ERICSSON TELEFON AB L M
[SE])
[US2006133760](#) A1 20060622
[] (HERSOUG ELLEF [SE], et al)
[US2006158655](#) A1 20060720
[] (EVERETT MATTHEW J [US],
et al)
[US2006193435](#) A1 20060831
[] (HARA KENJI [JP], et al)
[US2007015969](#) A1 20070118
[] (UNIV TEXAS)
[US2007081772](#) A1 20070412
[] (FUTURE INSTR FIBER
OPTICS AB [SE])
[US2008304788](#) A1 20081211
[] (SCHOTT AG [DE])
[US2009010601](#) A1 20090108
[] (HUANG WEI-PING [SE], et

	al)
	- R141 (A1)
	US4265519 A [];
	US4742305 A [];
	US5011259 A [];
	US5570446 A [];
	US5572313 A [];
	US5904413 A [];
	US5909527 A [];
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	US2003172680 A1 [];
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	US2006051043 A1 [];
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	US2007015969 A1 [];
	US7181111 B2 [];
	US2007081772 A1 [];
	US7245360 B2 [];
	US2008304788 A1 [];
	US2009010601 A1 []
CCI	- G02B6/2551 ; G02B6/2555
PA	- (B2)
	HUANG WEI-PING [SE];
	AHLSTEDT KJELL [SE]; ERICSSON
	TELEFON AB L M [SE]
TI	- (A1 B2)
	Automatic core-alignment
	for fusion splicing double-
	clad fibers
AB	- (A1 B2)
	In aligning ends of optical
	fibers, e.g. ends of large mode
	area double-clad fibers (LMA-
	DCFs), in a fiber optic fusion
	splicer the best position of the
	object plane of the optical
	system for observing images
	of the cores of the fiber ends

are first determined by maximizing the contrast of the core image, in particular the core image peak in intensity profiles. The alignment process may be performed by adjusting the offset distance between the observed cores in some suitable way, e.g. by using a cascade technique. In e.g. a process for prealigning the **fiber** ends the self-focusing effect of optical fibers can be used to first determine the best object plane position for observing the self-focusing effect and then the very pre-alignment operation can be performed. This may extend the range of image analysis allowing e.g. that alignment, in particular core alignment, can be performed without requiring direct information showing the position of sides or edges of the claddings in captured pictures.

- 20/24** © EPODOC / EPO
- PN - [US2009010601](#) A1 20090108
- PNFP - US8317412 B2 20121127
- PR - SE20050002952
20051230; WO2006SE01520
20061229
- AP - US20060159747 20061229
- DT - **
- CT - || STSE (B2)
[US4265519](#) A 19810505 [
] (RETINA FOUNDATION)
[US4742305](#) A 19880503 [
] (STOLAR INC [US])
[US5570446](#) A 19961029 [
] (ERICSSON TELEFON AB L M
[SE])
[US5572313](#) A 19961105 [
] (ERICSSON TELEFON AB L M
[SE])
[US6399936](#) B1 20020604 [
] (NEW DIMENSION RES INSTR
INC [US])



[US6788861](#) B1 20040907 [] (PENTAX CORP [JP])
[US7006741](#) B1 20060228 [] (YU BI [US])
[US7181111](#) B2 20070220 [] (LUCENT TECHNOLOGIES INC [US])
[US7245360](#) B2 20070717 [] (ERICSSON TELEFON AB L M [SE])
[US2003142934](#) A1 20030731 [] (CARNEGIE MELLON UNIVERSITY AND [US])
[US2005047725](#) A1 20050303 [] (AHRENS ROBERT GEORGE [US])
[US2005190371](#) A1 20050901 [] (KNUTTEL ALEXANDER [DE])
[US2006051043](#) A1 20060309 [] (ERICSSON TELEFON AB L M [SE])
[US2006158655](#) A1 20060720 [] (EVERETT MATTHEW J [US], et al)
[US2006193435](#) A1 20060831 [] (HARA KENJI [JP], et al)
[US2007015969](#) A1 20070118 [] (UNIV TEXAS)
[US2008304788](#) A1 20081211 [] (SCHOTT AG [DE])
- || R141 (A1)
[US5487125](#) A [];
[US2007015969](#) A1 [];
[US7006741](#) B1 [];
[US7181111](#) B2 [];
[US2005047725](#) A1 [];
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[US2006158655](#) A1 [];
[US7245360](#) B2 [];
[US2006193435](#) A1 [];
[US6788861](#) B1 [];
[US2005190371](#) A1 [];
[US5570446](#) A [];
[US5572313](#) A [];
[US2008304788](#) A1 []

CCI - [G02B6/2551](#) ; [G02B6/2555](#)
PA - (B2)
HUANG WEI-PING [SE];
AHLSTEDT KJELL [SE]; ERICSSON

	TELEFON AB LM [SE]
TI	- (A1 B2) Cladding Alignment for Fusion Splicing Optical Fibers
AB	- (A1 B2) In aligning ends of optical fibers (13), e.g. for performing a prealignment of ends of large mode area double-clad fibers (LMA-DCFs) in order to thereafter perform a core alignment process, in a fiber optic fusion splicer a best, optimum or near optimum position or setting of the optical system (7) for observing the self-focusing effect is first determined and then the very alignment operation may be performed using the determined setting. The very alignment process may then be performed by adjusting stepwise the offset distance between the observed fiber ends by e.g. using a cascade technique.

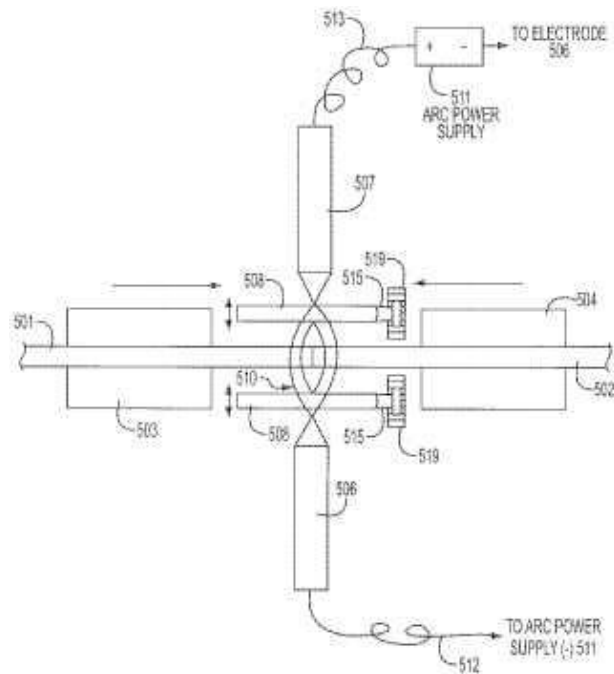
21/24 © EPODOC / EPO

PN	- WO2005101076 A1 20051027
PR	- US20040811750 20040329
AP	- WO2005US08731 20050316
DT	- *; Rep
CT	- EP ISR (A1) EP1184695 A1 20020306 [X] (CORNING CABLE SYS LLC [US]) [X] 1-24 * figure 6 * * figure 4 * * paragraph [0027] * * figure 3 * * sentence 21, paragraph 22 - sentence 22, paragraph 22 *; US5748819 A 19980505 [AD] (SZENTESI OTTO I [US], et al) [AD] 1-28 * figure 1 *
CCI	- G02B6/3833 ; G02B6/3846
CCA	- G02B6/3898 ; G02B6/255
PA	- CORNING CABLE SYS LLC [US]; PALMER JEFFREY D [US]; BEACH KEVIN C [US]; FORSBERG JASON F [US]
TI	- FIELD-INSTALLABLE FUSION SPLICE FIBER OPTIC CONNECTOR KIT AND METHOD THEREFORE

- AB - A field-installable **fusion fiber optic** connector kit and methods of assembling the same include a ferrule block subassembly and a splice cover handling block subassembly. The ferrule block subassembly includes a **fiber optic** stub, a ferrule, and a disposable ferrule handling block. The ferrule has a longitudinal bore therethrough for holding the **fiber optic** stub so that an end of the **fiber optic** stub extends beyond the ferrule. The disposable ferrule handling block is used for holding the ferrule during the assembly process. The splice cover handling block subassembly includes a crimp body, a spring, a splice cover, and a disposable splice cover handling block. The disposable splice cover handling block is used for holding the crimp body, the spring, and the splice cover during the assembly process.
- TXT - an appropriate **fusion splicer** (not shown) is used for splicing together optical **fiber** 90a and **fiber optic** stub 22 of ferrule block subassembly 22, thereby yielding a **fusion** spliced subassembly 100 as shown in Fig. 6e,f
- splicing only optical **fiber** with the stub

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- PN - [US6336750](#) B1 20020108
- PR - US20000549173 20000413
- AP - US20000549173 20000413
- DT - *
- CT - [JP2001066456](#) A []
- CCI - [G02B6/2551](#)
- PA - AMHERST HOLDING CO [US]
- TI - Structured arc technique using a focusing sleeve
- AB - The present invention introduces an arc shaping member to be used in **fiber optic fusion** splicers. The use of the an arc shaping member may minimize the undesirable effects of grunge and/or deposits than can buildup on arc electrodes. The buildup of grunge or other deposits can cause formation of an irregular electrical arc possibly resulting in an undesirable splice. The arc shaping member may be a passive or active. In a **fiber optic splicer**, the arc shaping member may be mounted in a plane parallel to the optical **fiber**(s) being spliced and in a plane perpendicular to the arc electrodes. The arc shaping member may be installed such that the member surrounds the electric arc created by the arc



electrodes. The presence of the arc shaping member causes the electric arc to maintain the desired shape and/or intensity. An operator may control, independent of the arc voltage, the shape, size and heat intensity of the electrical arc. The shape of the electric arc may be controlled for increasing and/or decreasing the focus of heat intensity at a desired location.

23/24 © EPODOC / EPO

PN - [WO2007078243](#) A1 20070712

PR - SE20050002952 20051230

AP - WO2006SE01520 20061229

DT - *; Rep

CT - [SE] ISR (A1)

[EP0909966](#) A1 [A];

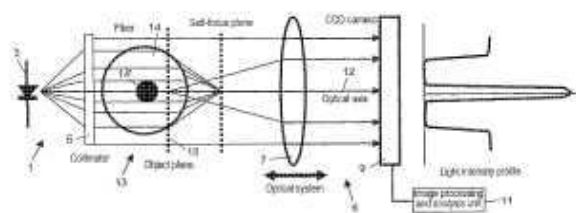
[EP0174428](#) A2 [A]

CCI - [G02B6/2551](#) ; [G02B6/2555](#)

PA - ERICSSON TELEFON AB L M
[SE]; HUANG WEI-PING [SE];
AHLSTEDTKJELL[SE]

TI - CLADDINGALIGNMENT
FOR **FUSION** SPLICING
OPTICAL FIBERS

AB - In aligning ends of optical fibers (13), e.g. for performing a prealignment of ends of large mode area double-clad fibers (LMA-DCFs) in order to thereafter perform a core alignment process, in a **fiber optic fusion splicer** a best, optimum or near optimum position or setting of the optical system (7) for observing the self-focusing effect is first determined and then the very alignment operation may be performed using the determined setting. The very alignment process may then be performed by adjusting stepwise the offset distance between the observed **fiber** ends by e.g.



using a cascade technique.

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PN - [WO2007078242](#) A1 20070712

PR - SE20050002950 20051230

AP - WO2006SE01519 20061229

DT - *; Rep

CT - [SE] ISR (A1)

[WO03073143](#) A1 [A];

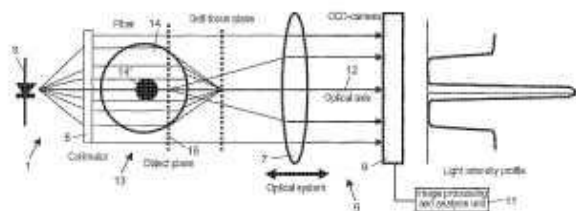
[EP1253448](#) A2 [A]

CCI - [G02B6/2551](#) ; [G02B6/2555](#)

PA - ERICSSON TELEFON AB L M
[SE]; HUANG WEI-PING [SE];
AHLSTEDTKJELL[SE]

TI - CORE ALIGNMENT FOR **FUSION**
SPlicing OPTICAL FIBERS

AB - In aligning ends of optical fibers (13), e.g. ends of large mode area double-clad fibers (LMA- DCFs), in a **fiber optic fusion splicer** the best position of the object plane (12) of the optical system (6) for observing images of the cores (14') of the **fiber** ends are first determined by maximizing the contrast of the core image, in particular the core image peak in intensity profiles. The alignment process may be performed by adjusting the offset distance between the observed cores in some suitable way, e.g. by using a cascade technique. In e.g. a process for prealigning the **fiber** ends the self-focusing effect of optical fibers can be used to first determine the best object plane position for observing the self-focusing effect and then the very pre-alignment operation can be performed. This may extend the range of image analysis allowing e.g. that alignment, in particular core alignment, can be performed without requiring direct information showing



the position of sides or edges
of the claddings (14) in
captured pictures.

[SS 32] ..v

[EPODOC: SS 32]