

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
RAD: 14-198134- -2	FECHA: 2016-06-13 09:46:11
DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
TRA: 2 PATENTES DE INVENCION	FOLIOS: 6
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
ANDREA TOBOS MATEUS

Asunto: Radicación: 14-198134- -2
Trámite: 2
Evento: 1
Actuación: 519
Oficio: 7099
Folios: 6

Patente de Invención	X			Patente de Modelo de Utilidad	
Vía Nacional	X				
Vía PCT (Fase Nacional)		Capítulo I		Capítulo II	
No. Solicitud Internacional					
Fecha de Presentación Internacional					

Como resultado del examen de fondo realizado, con fundamento en el Artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se comunica:

1. Documentos estudiados

Descripción:	Radicado N° 14-198134-0000-0000	08/Septiembre/2014
Reivindicaciones:	Radicado N° 14-198134-0000-0000	08/Septiembre/2014
Dibujos:	Radicado N° 14-198134-0000-0000	08/Septiembre/2014

2. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del capítulo primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por la solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10) reivindicaciones y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. En el presente caso se estudiarán las reivindicaciones 1 a 10 del capítulo reivindicatorio (Radicado N°. 14-198134-0000-0000).

Título de la solicitud: “Caja para el almacenamiento y derivación de fibra óptica” (Radicado N°. 14-198134-0000-0000).

El problema planteado en esta solicitud consiste en suministrar un sistema para derivar y proteger fibras ópticas, que permiten manipular los cables generando una

intervención controlada de las fibras y así originar más puntos de conexión en un empaque diseñado y ejecutado para la optimización de dicha tarea y la protección de las uniones de agentes externos.

Para resolver este problema técnico la solicitud en estudio proporciona una caja para el almacenamiento y derivación de fibra óptica, la cuales un nodo no presurizado que comprende una caja base, una caja tapa, una bandeja base, una bandeja escualizable, una bandeja de fusión y reserva de fibra óptica, un cuerpo o bloque de amarre del miembro central-chapa antitracción, un soporte para amarre de cables de bajada, un protector de cables cola de marrano y un soporte para cauchos de cable de bajada.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): G02B 27/44.

3. De la solicitud de patente

Reivindicaciones (Art 30 D 486, Art 22 PCT)

- Las reivindicaciones 3 y 5 a 9, incluyen características funcionales, tal y como se describe: la dependiente 3: *“...que permiten el paso de los cables por medio de un corte lateral para ingreso del cable de fibra óptica (3.5) y aísla el contenido de la caja base (1)...”, “...y es la encargada de generar el sello en la caja base (1)...”*. la dependiente 5: *“...para el posicionamiento de tres conectores rápidos...”*. La dependiente 6: *“...los cuales le permiten el movimiento por medio del eje de rotación de bandeja escualizable (10.6) el cual tiene una configuración cilíndrica...”* y *“...para la fijación bandeja escualizable (10) la bandeja base (8)...”*. La dependiente 7: *“...los cuales alojan los tornillos y posicionan el soporte para amarre de 24 cables de bajada (11) sobre los separadores para soporte de cables de amarre de bajada (12)...”, “...lo que permite que el tornillo cabeza de avellan se deslice por el separador (12) hasta asegurarse con la bandeja base (8) y así generar un ajuste firme del soporte para amarre (11)”*. La dependiente 8: *“...y permiten la escualización del protector de cables colla de marrano (13)...”*. La dependiente 9: *“...lo que permite seguir el recorrido de un cable específico hasta la salida del envoltente...”*, *“...el cual permite deslizar el soporte (15) en el orificio para soporte (1.3) con la misma configuración...”*. Este tipo de características, aunque explican la relación que hay entre diversas características estructurales y pueden estar incluidas en las reivindicaciones, no definen la invención; por lo tanto no se tienen en cuenta para el estudio de patentabilidad.
- La reivindicación 4 incluye resultados a alcanzar, tal y como se describe: *“...para evitar el giro del tornillo y así generar un eje roscado...”*. Los resultados a alcanzar no definen el producto reclamado, puesto que las reivindicaciones incluirían no sólo la solución propuesta por el solicitante, sino todas las alternativas presentes o futuras que lleguen a ese resultado. Se sugiere reemplazarlo por las características esenciales, estructurales o funcionales, que contribuyen a la obtención de ese efecto.
- La reivindicación 1 incluye una lista de partes, la cual es solo una lista de elementos, sin que se especifique una correlación entre los mismos y su ubicación en la caja reclamada. Se sugiere al solicitante realizar la corrección necesaria, sin incluir resultados a alcanzar, ventajas técnicas o usos de los elementos mencionados.

4. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación de la solicitud de patente nacional: septiembre 08 de 2014, y se encontraron los siguientes documentos que anticipan el objeto de esta solicitud:

Ítem	Documento	Título	Fecha de Publicación
D1	CN202351469	“Optical fiber junction box”	25/Julio/2012
D2	CN102230995	“Melting and storing integrated tray for optical fiber”	02/Noviembre/2011

El documento D1¹ divulga una caja de empalme de fibra óptica que comprende un cuerpo de caja, una cubierta, una bandeja de empalme y un dispositivo de bloqueo, en el que la tapa está conectada de manera pivotante al cuerpo de la caja para abrir y cerrar el cuerpo de la caja. La bandeja de unión está conectada de manera pivotante con el cuerpo de la caja y puede girar entre una posición para acomodar en el cuerpo de la caja y una primera posición de apertura estrechamente unida sobre la cubierta, donde al menos una parte del dispositivo de bloqueo está configurado para girar solo entre la posición de acomodación y una segunda posición de apertura (Resumen).

El documento D2² divulga una bandeja integrada de fusión y almacenamiento de fibra óptica, que comprende un disco de soldadura y un disco de almacenamiento de fibra óptica que está conectado de forma giratoria con el disco de soldadura a través de un eje de rotación o de un manguito. Dicho eje de rotación o el manguito del eje, están dispuestos en un lado o dos lados de la parte delantera de una placa de base del disco de soldadura; y el manguito del eje o manguito de rotación está dispuesto en un lado de la parte frontal de una placa base inferior del disco de almacenamiento de fibra óptica (Resumen).

5. Examen de Patentabilidad (Art 14 D486)

Nivel inventivo (Art 18 D486)

La reivindicación 1 enseña: “Una caja para almacenamiento y derivación de cables de fibra óptica que comprende...” (Ver página 33 del radicado N°. 14-198134-0000-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D1	D2
Una caja para almacenamiento y derivación de cables de fibra óptica, que comprende:	Una caja de empalme de fibra óptica, que comprende:	Una bandeja integrada de fusión y almacenamiento de fibra óptica, que comprende:
a. Una caja base (1) de configuración rectangular con una de sus caras abiertas (superior), definiendo una cavidad base.	Una caja de configuración rectangular paralelepípeda (1) (Fig. 4, párr. 0035).	No menciona.
b. Una caja tapa (2) de configuración rectangular con una de sus caras abiertas (inferior), definiendo una cavidad tapa.	Una tapa (2) conectada pivotablemente al cuerpo de caja (1) (Fig. 4, párr. 0035).	No menciona.
c. Una bandeja base (8) de configuración rectangular.	Una bandeja rectangular en el interior de la caja (1) (Fig. 3).	No menciona.
d. Una bandeja escualizable (10) de configuración rectangular.	Una bandeja de empalme (3) conectada pivotablemente al cuerpo de caja (1) (Fig. 4, párr. 0035).	No menciona.
e. Una bandeja de fusión y reserva de fibra óptica (9).	No menciona.	Una bandeja de fusión integrada, con el uso de un marco de distribución de fibra óptica y una caja de transferencia (Párr. 0003).
f. Una chapa antitracción (6).	Un bloque de retención (4) (Fig. 5, párr. 0035)	Una pared lateral del arco de fibra óptica (8) incluye una pared de retención a lo largo de la placa (12) de fibra óptica (25)

1 <http://worldwide.espacenet.com/publicationDetails/biblio?CC=CN&NR=202351469U&KC=U&FT=D>

2 <http://worldwide.espacenet.com/publicationDetails/biblio?CC=CN&NR=102230995A&KC=A&FT=D>

		para almacenarla, limitarla y protegerla (Fig. 3, párr. 0012).
g. Un soporte para amarre de cables de bajada (11).	No menciona.	Una placa de base (5) donde se conectan unos cables de cola de marrano (24) (Fig. 6, párr. 0010).
h. Un protector de cables cola de marrano (13).	No menciona.	Una placa de cubierta (6) (Fig. 2, párr. 0010).
i. Un soporte para cauchos cable de bajada (15).	No menciona.	Una regleta (22) para cables de cola de marrano (Fig. 6, párr. 0010).

Los documentos D1 y D2 se consideran el estado de la técnica cercano a la invención definida en la reivindicación 1, porque divulgan una caja para almacenamiento y derivación de cables de fibra óptica, que comprende una caja base (1) de configuración rectangular con una de sus caras abiertas (superior), definiendo una cavidad base, una caja tapa (2) de configuración rectangular con una de sus caras abiertas (inferior), definiendo una cavidad tapa, una bandeja base (8) de configuración rectangular, una bandeja escualizable (10) de configuración rectangular, una bandeja de fusión y reserva de fibra óptica (9), una chapa antitracción (6), un soporte para amarre de cables de bajada (11), un protector de cables cola de marrano (13) y un soporte para cauchos cable de bajada (15).

La diferencia entre la invención, definida en la reivindicación 1 y la caja de empalme de fibra óptica de D1, consiste en que el objeto de la solicitud presenta una modalidad, donde se incluye una bandeja de fusión y reserva de fibra óptica (9), un soporte para amarre de cables de bajada (11), un protector de cables cola de marrano (13) y un soporte para cauchos cable de bajada (15).

El efecto que logra el incluir una bandeja de fusión y reserva de fibra óptica (9), un soporte para amarre de cables de bajada (11), un protector de cables cola de marrano (13) y un soporte para cauchos cable de bajada (15) es que permite manipular los cables generando una intervención controlada de las fibras y así originar más puntos de conexión en un empaque diseñado y ejecutado para la optimización de dicha tarea y la protección de las uniones de agentes externos.

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: ¿cómo modificar la caja de empalme de fibra óptica de D1 para manipular los cables generando una intervención controlada de las fibras y así originar más puntos de conexión en un empaque diseñado y ejecutado para la optimización de dicha tarea y la protección de las uniones de agentes externos.

Sin embargo, la utilización de una bandeja de fusión y reserva de fibra óptica (9), un soporte para amarre de cables de bajada (11), un protector de cables cola de marrano (13) y un soporte para cauchos cable de bajada (15), ya había sido divulgado en D2, el cual se refiere a una bandeja de fusión integrada, con el uso de un marco de distribución de fibra óptica y una caja de transferencia (Párr. 0003), una placa de base (5) donde se conectan unos cables de cola de marrano (24) (Fig. 6, párr. 0010), una placa de cubierta (6) (Fig. 2, párr. 0010) y una regleta (22) para cables de cola de marrano (Fig. 6, párr. 0010).

En consecuencia, la persona del oficio normalmente versada en la materia, incluiría una bandeja de fusión integrada, con el uso de un marco de distribución de fibra óptica y una caja de transferencia, una placa de base donde se conectan unos cables de cola de marrano, una placa de cubierta y una regleta para cables de cola de marrano de D2, en la caja de empalme de fibra óptica de D1, para llegar así al objeto de la reivindicación 1 de la solicitud. Por lo cual se considera obvia.

6. Conclusión

Los requisitos de Patentabilidad de la presente solicitud están afectados así:

Ítem	Documento	Reivindicaciones afectadas	Requisito que afecta
D1	CN202351469	1	Nivel Inventivo
D2	CN102230995	1	Nivel Inventivo

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de sesenta (60) días contados a partir de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Si como respuesta a este requerimiento el solicitante llegara a modificar: i) el capítulo reivindicatorio, ii) la descripción de la invención a proteger, iii) o presente un nuevo capítulo reivindicatorio, y desee que se realice un nuevo examen de patentabilidad a esta modificación, no deberá pagar la tasa de modificación voluntaria pero sí la correspondiente a la tasa de examen de patentabilidad. En todo caso, el número de requerimientos por no patentabilidad estará supeditado a que el término del estudio de patentabilidad no sea superior a 18 meses, contados desde la publicación de la solicitud de patente de invención. Adicionalmente, se le recuerda al solicitante que si como respuesta a este requerimiento llegara a modificar el capítulo reivindicatorio y éste contenga más de diez (10) reivindicaciones deberá pagar la tasa por reivindicación adicional.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única No. 10 de 2001.



JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista, de fecha 2016-06-21

Elaboró: Ivan Mauricio Ardila Romero

Revisó: Rachid Ponce Vergel

IvĂin Ardila

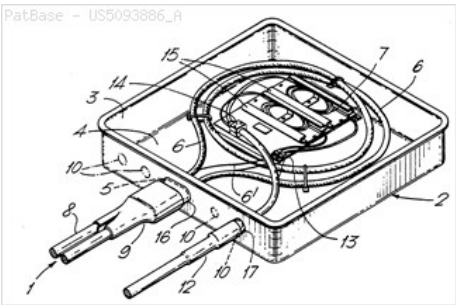
Search history

Search 1: optical fiber (Results 100000)
Search 2: junction box (Results 20530)
Search 3: tray (Results 100000)
Search 4: 1 and 2 and 3 (Results 20)

Title: Optical communication system

Abstract: Source: US5093886A In order to allow an optical cable to be accessed by spur cables at various points along its length after it has been laid, connection housings are provided at intervals along its length. A loop of the main cable is passed into each housing so that at a later date there is an excess of cable to enable connections to be made to it. Each housing contains fittings such as manifolds and organizer trays where the optical fibers are spliced and includes several access ports which are covered over until it is required to connect a spur cable to the main cable.

Classifications:
International (IPC 8-9): G02B6/44 (Advanced/Invention)
International (IPC 1-7): G02B6/36 G02B6/44 G02B7/26
CPC: G02B6/4452 G02B6/4454 G02B6/4476 G02B6/4446
European: G02B6/44C8A2K G02B6/44C8A4 G02B6/44C8A6S G02B6/44C8Z2
US: 385/135



Family:

Publication number	Publication date	Application number	Application date
AT60452 E	19910215	AT19850307391T	19851015
DE3581497 D1	19910228	DE19853581497	19851015
EP0182494 A1	19860528	EP19850307391	19851015
EP0182494 B1	19910123	EP19850307391	19851015
GB2165661 A1	19860416	GB19850018694	19850724
GB2165661 B2	19880518	GB19850018694	19850724
GB8426008 A0	19841121	GB19840026008	19841015
GB8518694 A0	19850829	GB19850018694	19850724
US5093886 A	19920303	US19880290359	19881227

Priority:
GB19840026008 19841015 GB19850018694 19850724 US19870109237 19871015
US19850786327 19851010 EP19850307391 19851015 EP19850307391 19851015
US19880290359 19881227

Probable Assignee: MARCONI UK INTELLECTUAL PROPERTY LTD

Assignee(s): (std): TELEPHONE CABLES LTD

Assignee(s): TELEPHONE CABLES LTD DAGENHAM ESSEX GB ; MARCONI UK INTELLECTUAL PROPERTY LTD ; TELEPHONE CABLES LIMITED

Inventor(s): (std): GEORGE EDWARD KITCHENER ; JUNG ROGER ERWIN ; SMOKER JOHN V ; JUNG ROGER E ; GEORGE EDWARD K ; SMOKER JOHN VICTOR

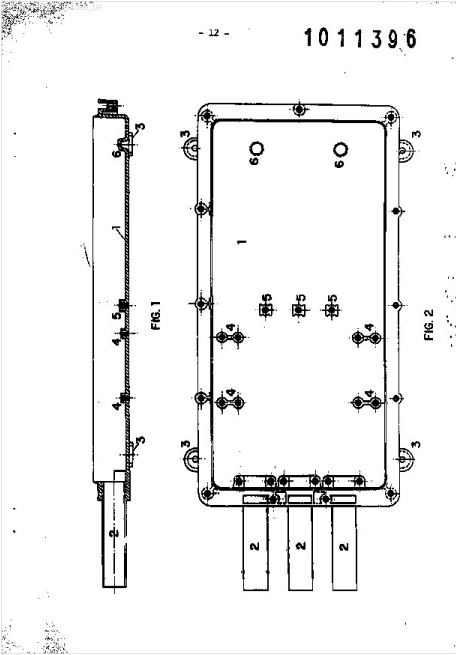
Inventor(s): SMOKER JOHN VICTOR LONDON N10 GB ; EDWARD KITCHENER GEORGE ; ROGER ERWIN JUNG ; JOHN VICTOR SMOKER ; JUNG ROGER ERWIN LONDON E4 8LE GB ; GEORGE EDWARD KITCHENER SOUTH HORNCHURCH ESSEX GB

Designated states: AT BE CH DE FR IT LI NL SE

Title: CAJA PARA EMPALMES DE FIBRA OPTICA.

Abstract: Source: ES1011396U 1. Caja de empalmes de bra optica, esen- cialmente caracterizada porque en la base de la caja existen unos tubos de entrada y salida de cables dotados de taladros para su jaci on a la pared de las camaras de registro, teniendo unos insertos destinados a la jaci on de los soportes de bandejas. 1. Optical splice closure bra, essentially characterized in that the base of the box there are some inlet and outlet provided with holes for jaci on a wall of cameras recording cables, bearing inserts intended for jaci on the **tray** supports.

Classifications:
International (IPC 8-9): G02B6/38 (Advanced/Invention);
G02B6/38 (Core/Invention)
International (IPC 1-7): G02B6/38



Family:

Publication number	Publication date	Application number	Application date
ES1011396 UA	19900401	ES19890001503U	19890510
ES1011396 Y1	19901101	ES19890001503U	19890510
ES1011396 YA	19901101	ES19890001503U	19890510

Priority:
ES19890001503U 19890510

Probable Assignee: TELEFONICA DE ESPANA S A

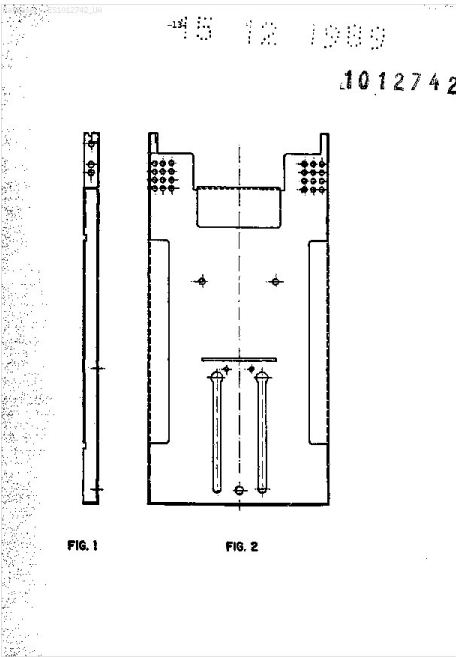
Assignee(s): (std): TELEFONICA DE ESPANA S A

Inventor(s): (std): ANTOLIN FERNANDEZ CARLOS ; DIAZ CORTIJO JESUS

Title: CAJA DE EMPLAME Y REPARTICION DE FIBRAS OPTICAS.

Abstract: Source: ES1012742U 1. Caja de empalme y reparticion de bras opticas, compuesta por un bastidor y una tapa que ajustan mediante una junta torica de goma formando un recinto hermeticamente cerrado con salida al exterior mediante una serie de tubos, y que contiene en su interior varias bandejas que descansan sobre un soporte, caracterizada por integrar el almacenamiento de empalme de bras opticas y la reparticion de conectores mediante la utilizacion de una serie de bandejas iguales de almacenamiento y una bandeja superior especial para distribuir e p a r t i c i o n de conectores para cables multibra. 1. **Junction box** and distribution of **optical fibers**, comprising a frame and a cover to fit through a rubber O ring forming a hermetically sealed enclosure with vented to the outside through a series of tubes, and contains within it several **trays** that rest on a support, characterized by integrating the storage of splicing **optical fibers** and connectors reparticion by utilizing a series of equal storage shelves and a top **tray** special ad ae NLAR EPART liz i on ic multibra connectors for cables.

Classifications:
International (IPC 8-9): H01R9/22 (Advanced/Invention);
H01R9/22 (Core/Invention)
International (IPC 1-7): H01R9/22



Family:

Publication number	Publication date	Application number	Application date
ES1012742 UA	19900916	ES19890003767U	19891215
ES1012742 Y1	19910416	ES19890003767U	19891215
ES1012742 YA	19910416	ES19890003767U	19891215

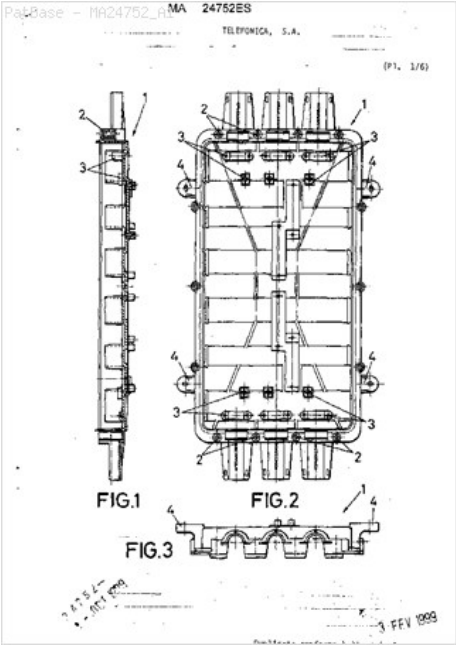
Priority:
ES19890003767U 19891215
Probable Assignee: TELEFONICA DE ESPANA S A
Assignee(s): (std): TELEFONICA DE ESPANA S A
Inventor(s): (std): ANTOLIN FERNANDEZ CARLOS

Title: CAJA DE EMPALME DE FIBRAS OPTICAS CON ENTRADAS OPUESTAS. **JUNCTION BOX OPTICAL FIBERS** WITH TICKETS OPPOSITE.
(Machine translation)

Abstract: Source: AR018059A El presente modelo de utilidad se refiere a una caja de empalme de fibras opticas con entradas opuestas, cuya finalidad es la de permitir albergar de forma adecuada, empalmes en linea entre fibras opticas, presentando en los discos de almacenamiento de fibras, unas aletas de proteccion retractiles, destinadas para proteger las fibras opticas propiamente dichas, y contando con las tapas de las bandejas sobre la zona de organizadores, incluyendo una ventana de visualizacion de dichos organizadores, con el objeto de permitir observar los empalmes realizados, asi como su pertinente identificacion, a la vez que presenta un hueco entre la base y la bandeja inferior del grupo de bandejas, donde mediante unas aletas y pinzas guia cables, se permite el almacenamiento de fibras en esta zona asi configurada, estando enclavado el bastidor de bandejas en la base, con el objeto de permitir ser facilmente extraido con todo el conjunto de las bandejas, a tenor de no estar atornillado.

Machine translation: This utility model relates to a **junction box** combines **optical fiber** with opposite entrances, whose purpose is to allow hosting of fiber optic line between presenting in fiber disc storage fiber discs, protective flaps retractable, designed to protect **optical fibers** themselves, and with the tops of the **trays** on the area of organizers, including a window for visualization of those organizers, in order to enable watch the joints made, as well as their relevant identification, the while introducing a gap between the base and the lower **tray** group **trays**, where by fins and guide wire clamps are allowed storage of fibers in this area so configured, the frame being located at the base **tray**, to allow be easily removed with the entire set of trays, according to not be screwed.

Classifications:
International (IPC 8-9): G02B6/44 G02B6/50 H01R9/28 H02G3/16 H04B10/12 (Advanced/Invention);
G02B6/44 G02B6/46 H01R9/22 H02G3/16 H04B10/12 (Core/Invention)
International (IPC 1-7): G02B6/44 G02B6/50 H01R9/28 H02G3/16 H04B10/12



Family:

Publication number	Publication date	Application number	Application date
AR018059 A4	20011031	AR1999M100464U	19990204
BRMU7900307 U	20000404	BR1999MU00307U	19990204
ES1039475 UA	19981216	ES19980000300U	19980204
ES1039475 Y1	19990516	ES19980000300U	19980204
ES1039475 YA	19990516	ES19980000300U	19980204
MA24752 A1	19991001	MA19990025447	19990203
PE892000 Z	20000204	PE19990000083U	19990209
PT9517 U	19990831	PT19990009517U	19990204

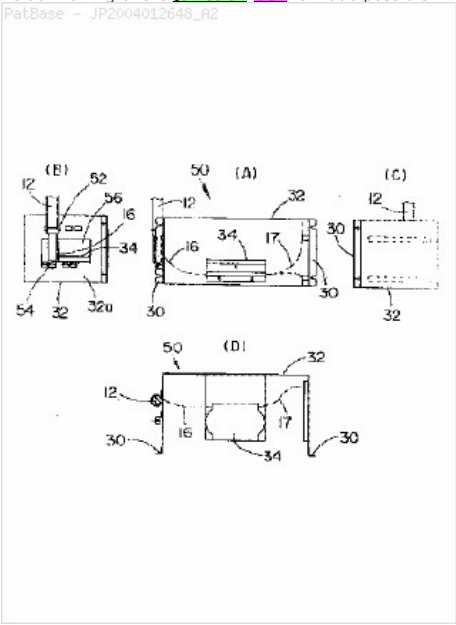
Priority:
ES19980000300U 19980204

Probable Assignee: TELEFONICA NACIONAL ESPANA CO
Assignee(s): (std): TELEFONICA NACIONAL ESPANA CO ; TELEFONICA SA
Assignee(s): TELEFONICA S A ; TELEFONICA DE ESPANA S A ; TELEFONICA DE ESPANA SA
Inventor(s): (std): CORTIJO JESUS DIAZ ; DIAZ CORTIJO JESUS ; FERNANDEZ FERNANDEZ MANUEL ; FERNANDEZ MANUEL FERNANDEZ ; JESUS DIAZ CORTIJO ; MANUEL FERNANDEZ FERNANDEZ

Title: RACK ATTACHMENT TYPE JUNCTION BOX

Abstract: Source: JP2004012648A PROBLEM TO BE SOLVED: To permit the installation of optical cables regardless of existing transmitters and the like existing above or below a junction box provided with a box body 32 to be attached to a rack and an extra length housing tray 34 of a coated optical fiber juncture installed within the box body, and to reduce the size of the junction box. SOLUTION: An outside surface of a side wall 32a of the box body 32 is provided with a cable fixing section 52 for anchoring the optical cable 12 and a tension member gripper 54, and the side wall 32a is provided with an introducing port 56 for introducing coated optical fibers 16 of the optical cable 12 into the box body 32. Since the optical cable 12 can be fastened to the outside surface of the side wall 32a, the wiring can be made regardless of the upper and lower transmitters and the like. The optical cable is not led into the box body 32 and therefore the downsizing of the junction box is made possible.

Classifications:
International (IPC 8-9): G02B6/00 (Advanced/Invention)
International (IPC 1-7): G02B6/00



Family:

Publication number	Publication date	Application number	Application date
JP2004012648 A2	20040115	JP20020163848	20020605

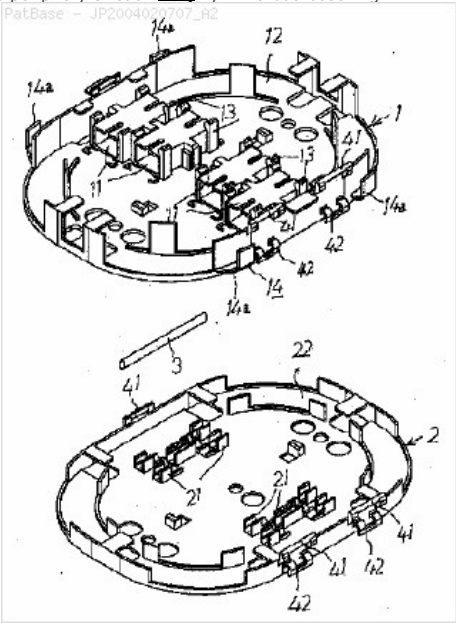
Priority:
JP20020163848 20020605

Probable Assignee: FURUKAWA ELECTRIC CO LTD
Assignee(s): (std): FURUKAWA ELECTRIC CO LTD
Assignee(s): FURUKAWA ELECTRIC CO LTD THE ; THE FURUKAW ELECTRIC CO LTD
Inventor(s): (std): ISOBE TATSUYA

Title: HOUSING TRAY FOR EXCESS FIBER OF OPTICAL JUNCTION BOX

Abstract: Source: JP2004020707A PROBLEM TO BE SOLVED: To provide a housing tray for an excess fiber of an optical junction box for reducing the size of the optical junction box. SOLUTION: An adaptor tray 1 housing an optical adaptor 11 and a melt-stick tray 2 housing a melt-stuck joined part can be stacked. Because the optical adaptor 11 is housed in the tray, the sizes in the longitudinal and lateral directions of the optical junction box using the trays can be reduced. The periphery of each tray 1, 2 is provided with a guide 14 for holding an excess fiber to house the excessive length of an optical fiber, so that the excess length of an optical fiber can be housed and an excess part to be present in the periphery of the upper tray 1, 2 of the stacked trays can be exactly located in the periphery of each tray 1, 2 without loosening.

Classifications:
International (IPC 8-9): G02B6/00 H02G11/00 H02G15/113
H05K7/00 (Advanced/Invention)
International (IPC 1-7): G02B6/00 H02G11/00 H02G15/113 H05K7/00



Family:

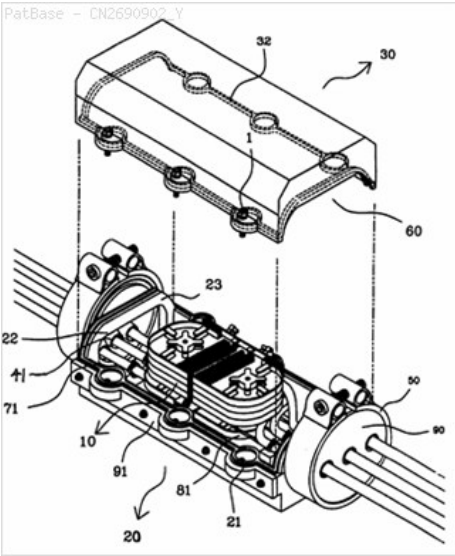
Publication number	Publication date	Application number	Application date
JP2004020707 A2	20040122	JP20020172754	20020613

Priority:
JP20020172754 20020613
Probable Assignee: NITTO ELECTRIC WORKS LTD
Assignee(s): (std): NITTO ELECTRIC WORKS LTD
Inventor(s): (std): ISAJI NORIYUKI ; MATSUNAMI KOICHI

Title: Optical cable junction box

Abstract: Source: CN2690902Y The utility model discloses an optical cable junction box, which has the advantages of good hermeticity; moreover, the optical fiber can be easily dismounted and well stored at the time of line maintenance. The optical cable junction box comprises a base, a top cover, a backup optical fiber-holding box, lead-in sealed covers and a junction tray group. The both ends of the base of the optical cable junction box are provided with lead-in pipes and sealed covers, the backup optical fiber-holding box is installed on the base, a junction tray group composed of a plurality of junction trays is installed on the upper part of the backup optical fiber-holding box, the top cover is sealed with the junction box base, and a screw bolt is installed on the base. The utility model can be used in various cable communication projects.

Classifications:
International (IPC 8-9): G02B6/36 (Advanced/Invention);
G02B6/36 (Core/Invention)
International (IPC 1-7): G02B6/36



Family:

Publication number	Publication date	Application number	Application date
CN2690902 Y	20050406	CN200420030629U	20040304

Priority:
CN200420030629U 20040304

Probable Assignee: LI CHUSHU
Assignee(s): (std): LI CHUSHU
Inventor(s): (std): LI CHUSHU ; ZHENG XINGTAI
Inventor(s): CHUSHU LI ; XINGTAI ZHENG

Title: **OPTICAL FIBER** TERMINATION APPARATUS WITH CONNECTOR ADAPTOR AND METHOD FOR USING THE SAME

Abstract: Source: US2006133758A An **optical fiber** termination apparatus includes a housing defining an **optical fiber** receiving chamber and having a connector adaptor receiving opening. A connector adaptor is positioned in the connector adaptor receiving opening. The connector adaptor has a connector opening therein extending from outside the housing to the **optical fiber** receiving chamber. The connector opening is configured to mate with a connector of a predetermined connector type. Methods of terminating **optical fiber** using **optical fiber** termination apparatus are also provided.

Classifications:

International (IPC 8-9): G02B6/00 G02B6/25 G02B6/36

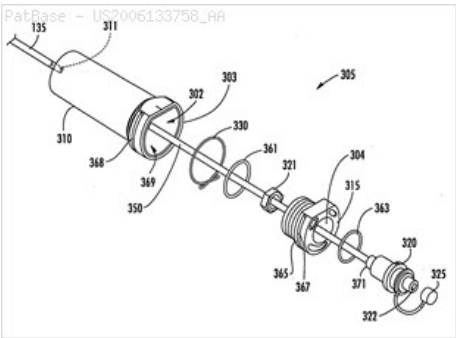
G02B6/38 (Advanced/Invention);

G02B6/00 G02B6/36 (Core/Invention)

CPC: G02B6/4472 G02B6/3825 G02B6/3849 G02B6/3897

European: G02B6/38D16 G02B6/38D2N G02B6/44C8Z1 S02B6/38D6H2

US: 385/139 385/139P 385/78



Family:

Publication number	Publication date	Application number	Application date
CA2531263 AA	20060622	CA20052531263	20051221
CA2531263 C	20151103	CA20052531263	20051221
CA2531264 AA	20060622	CA20052531264	20051221
US2006133758 AA	20060622	US20050302629	20051214
US2006133759 AA	20060622	US20050314871	20051221
US7428366 BB	20080923	US20050302629	20051214
US7469091 BB	20081223	US20050314871	20051221

Priority:

US20040638866P 20041222	US20050650055P 20050204	US20050314871 20051221
US20050685450P 20050527	US20050302629 20051214	CA20052531263 20051221
CA20052531264 20051221		

Probable Assignee: COMMSCOPE TECHNOLOGIES LLC

Assignee(s): (std): CARRICO WILLIAM A ; MULLANEY JULIAN ; THOMPSON ROY K ; TYCO ELECTRONICS CORP ; GRICE MICHAEL E

Assignee(s): GRICE MICHAEL EUGENE ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; THOMPSON ROY KELLER ; TYCO ELECTRONICS SERVICES GMBH ; CARRICO WILLIAM ALAN ; COMMSCOPE EMEA LTD ; COMMSCOPE TECHNOLOGIES LLC

Inventor(s): (std): GRICE MICHAEL E ; GRICE MICHAEL EUGENE ; MULLANEY JULIAN ; CARRICO WILLIAM A ; CARRICO WILLIAM ALAN ; THOMPSON ROY K ; THOMPSON ROY KELLER

Inventor(s): GRICE MICHAEL ; THOMPSON ROY ; CARRICO WILLIAM

Agent(s): FETHERSTONHAUGH AND CO; MARGUERITE E GERSTNER TYCO ELECTRONICS CORP; MYERS BIGEL SIBLEY AND SAJOVEC

Title: SOCKET INSERT FOR FLUSH-MOUNTED CONNECTION SOCKET IN E.G. ELECTRICAL INSTALLATION INSTALLED AT FLOOR OF BUILDING, HAS SECONDARY WINDING DEVICE WINDING REMAINING EXCESS PORTIONS OF FIBER OPTIC CABLE ACCORDING TO DEFINED BENDING RADIUS

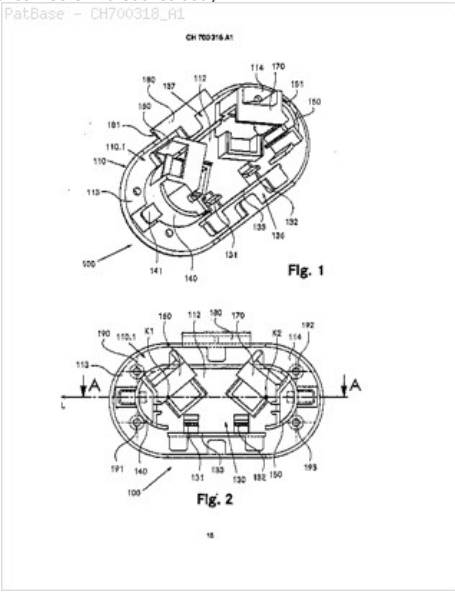
Abstract: The insert (400) has a primary winding device (300) that is arranged in a plane and winds excess portions of a fiber optic cable in accordance with a defined bending radius. A secondary winding device (200) is arranged in another plane which is perpendicular to the former plane. The secondary winding device winds remaining excess portions of the fiber optic cable according to the defined bending radius. The primary winding device lies within a central region of the insert. The primary winding device has a holding device (160) for holding an optical plug connector (350). An independent claim is also included for a method for assembling a socket insert in a socket body.

Classifications:

International (IPC 8-9): G02B6/00 H02G3/12 (Advanced/Invention);
G02B6/00 H02G3/12 (Core/Invention)

CPC: G02B6/444 G02B6/4457 G02B6/4466

European: G02B6/44C8B G02B6/44C8E4 S02B6/44C8A



Family:

Publication number	Publication date	Application number	Application date
CH700318 A1	20100730	CH20090000139	20090130

Priority:

CH20090000139 20090130

Probable Assignee: DRAHTEX AG

Assignee(s): (std): DRAHTEX AG

Inventor(s): (std): FRECH FRIDOLIN ALOIS

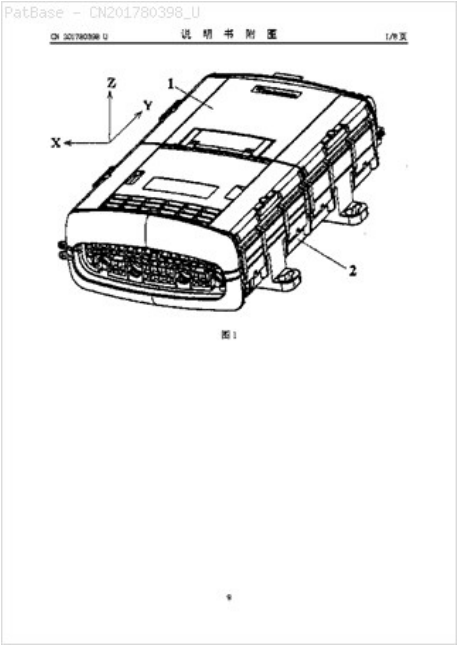
Inventor(s): FRIDOLIN ALOIS FRECH

Title: **Optical fiber junction box**

Abstract: Source: CN201780398U The utility model discloses an **optical fiber junction box**, which comprises a casing used for containing a connecting wire **tray**. The casing includes a base and a top cover, the top cover comprises at least one auxiliary cover unit, and at least one of the auxiliary cover units can be independently opened so that a corresponding zone to be operated can be opened according to practical operation needs. Compared with the prior art, the top cover of the optical **junction box** includes the auxiliary cover units, when operation needs to be executed only on an operating zone covered by one specific auxiliary cover unit, only the auxiliary cover unit relevant to the operation needs to be opened without opening the integral top cover, other operating zones irrelevant to the operation are still shielded by the casing, accordingly the **optical fiber junction box** can reduce and even avoid interference to and even damage of a mounted original communication circuit, provides safety protection for the original communication circuit to the furthest extent, and is simple and speedy in operation due to the fact that only the auxiliary cover unit relevant to the operation needs to be opened.

Classifications:

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



Family:

Publication number	Publication date	Application number	Application date
CN201780398 U	20110330	CN201020260299U	20100713

Priority:

CN201020260299U 20100713

Probable Assignee: TYCO ELECTRONICS SHANGHAI LTD

Assignee(s): (std): TYCO ELECTRONICS SHANGHAI LTD

Inventor(s): (std): LIMING WANG ; YANHONG YANG ; ZHENGGUO RUI

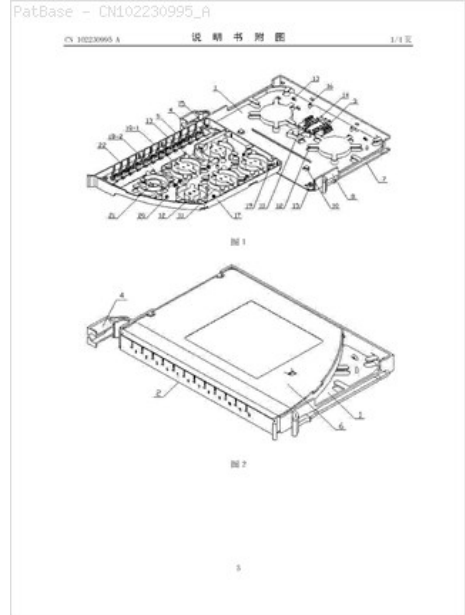
Inventor(s): RUI ZHENGGUO ; WANG LIMING ; YANG YANHONG

Title: MELTING AND STORING INTEGRATED TRAY FOR OPTICAL FIBER

Abstract: Source: CN102230995A The invention relates to a melting and storing integrated tray for an optical fiber. The melting and storing integrated tray is characterized by comprising a welding disk and an optical fiber storage disk, wherein the optical fiber storage disk is rotatably connected with the welding disk through a rotating shaft or a shaft sleeve; the rotating shaft or the shaft sleeve is arranged on one side or two sides of the front part of a base plate of the welding disk; and a shaft sleeve or a rotating shaft is arranged on one side of the front part of a lower base plate of the optical fiber storage disk. The melting and storing integrated tray has the advantages that the tray has higher universality and provides convenience for an operator to quickly meet the requirements of a jumper connection free function and the unified product standard purchase. The storage length of each tail optical fiber is more than 2 meters, so the tail optical fiber is applicable to an indoor jumper connection free optical distribution frame and an outdoor jumper connection free optical cable junction box. Tail optical fibers are stored separately in the tray; when not used, the tail optical fibers can be protected effectively and do not occupy the space outside the tray; and when connected and used, the tail optical fibers are convenient to take out. The tail optical fibers are led out of the tray separately and the used and non-used tail optical fibers are easy to identify, so that the tail optical fibers are clear at a glance by a user and convenient to maintain.

Classifications:

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



Family:

Publication number	Publication date	Application number	Application date
CN102230995 A	20111102	CN201110219711	20110802
CN102230995 B	20120926	CN201110219711	20110802

Priority:

CN201110219711 20110802

Probable Assignee: NANJING PUTIAN TELECOMM CO LTD

Assignee(s): (std): NANJING PUTIAN TELECOMM CO LTD

Assignee(s): NANJING PUTIAN TELECOMMUNICATIONS CO ; NANJING PUTIAN TELECOMMUNICATIONS CO LTD

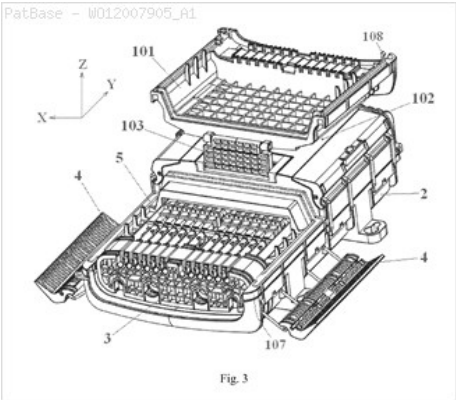
Inventor(s): (std): CHEN ZHAO ; DAQING ZENG ; YONGFU DING

Inventor(s): ZENG DAQING ; ZHAO CHEN ; DING YONGFU

Title: **OPTICAL FIBER** SPLICE CLOSURE WITH SPLIT COVER

Abstract: The present invention discloses an **optical fiber** splice closure comprising a housing for receiving a splice unit. The housing has a base and a cover. The cover comprises at least one sub-cover unit, and the at least one sub-cover unit is constructed to be opened individually so as to expose at least one local operation area as necessary. Accordingly, when an operation is to be performed only on an operation area covered by a sub-cover unit, and the operator can perform this operation only by opening the sub-cover unit, without opening the whole cover. Thereby, the operator can simply and quickly complete this operation. In this way, electronic elements, optical elements and communication circuits on other operation areas are still covered and protected by the cover.

Classifications:
International (IPC 8-9): G02B6/44 (Advanced/Invention)
CPC: G02B6/445
European: G02B6/44C8A2K6



Family:

Publication number	Publication date	Application number	Application date
CN102331608 A	20120125	CN201010228104	20100713
CN102331608 B	20131030	CN201010228104	20100713
WO12007905 A1	20120119	WO2011B53110	20110712

Priority:
CN201010228104 20100713

Probable Assignee: TYCO ELECTRONICS SHANGHAI CO

Assignee(s): (std): RUI ZHENGGUO ; TYCO ELECTRONICS LTD UK ; TYCO ELECTRONICS SHANGHAI CO ; YANG YANHONG ; WANG LIMING

Assignee(s): TYCO ELECTRONICS SHANGHAI CO LTD ; TYCO ELECTRONICS UK LTD

Inventor(s): (std): LIMING WANG ; RUI ZHENGGUO ; WANG LIMING ; YANG YANHONG ; YANHONG YANG ; ZHENGGUO RUI

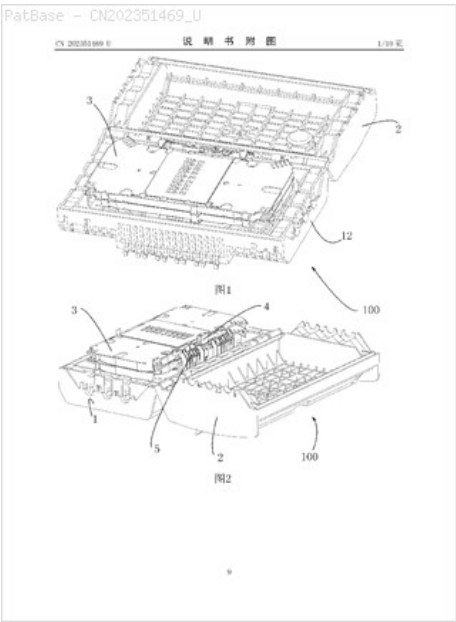
Agent(s): HEINZ SCHAEFER MARION ET AL

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 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

Title: **Optical fiber junction box**

Abstract: Source: CN202351469U The utility model provides an **optical fiber junction box** which comprises a box body, a cover, a jointing **tray** and a locking device, wherein the cover is pivotally connected to the box body to open and close the box body, the jointing **tray** is pivotally connected to the box body and can rotate between an accommodating position in the box body and a first opening position closely attached onto the cover, at least one part of the locking device is configured to protrude in a retractable manner and can limit the jointing **tray** to rotate only between the accommodating position and a second opening position when protruding out, and the second opening position is positioned between the accommodating position and the first opening position. The locking device is operated to allow the jointing **tray** to turn about 180 degrees from the accommodating position and then enter the first opening position or turn about 90 degrees from the accommodating position and then enter the second opening position.

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



Family:

Publication number	Publication date	Application number	Application date
CN202351469 U	20120725	CN201120362329U	20110926

Priority:
CN201120362329U 20110926

Probable Assignee: TYCO ELECTRONICS SHANGHAI CO

Assignee(s): (std): TYCO ELECTRONICS SHANGHAI CO

Assignee(s): TYCO ELECTRONICS SHANGHAI CO LTD

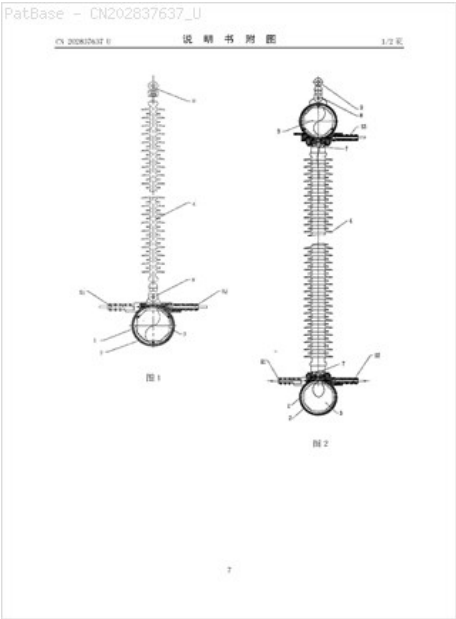
Inventor(s): (std): LIMING WANG ; YIXIN GONG

Inventor(s): GONG YIXIN ; WANG LIMING

Title: HIGH-VOLTAGE OPTICAL PHASE CONDUCTOR JUNCTION BOX

Abstract: Source: CN202837637U The utility model provides a high voltage optical fiber composite overhead phase connector boxes, cable connecting device involved, and particularly to an optical fiber splicing device voltage level of 500kV EHV lines with optical fiber composite overhead lines. Includes a box body, box lid, the built in optical fiber splice tray and composite insulators cartridge body, said cartridge comprises one or more, on the cartridge body into the cable provided with at least one hole for the optical fiber unit introduced, the Cable inlet hole provided on said side of said cartridge body, said coiled optical fiber unit in the cartridge body, into the cable aperture of the cartridge body using sealant, the use of the cassette cover ring seal, and the Cited fiber composite insulators described hole filled epoxy inside. The structure extended insulators, fiber-hole lead poured epoxy insulation voltage level higher; with hanging installation structure, convenient construction; the use of sealants and sealing ring; implement embedded fiber unit, at the same time leads to optical fiber, to achieve intelligent control offers a solution.

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



Family:

Publication number	Publication date	Application number	Application date
CN202837637 U	20130327	CN201220501698U	20120928

Priority:
CN201220501698U 20120928

Probable Assignee: SHENZHEN SDG INFORMATION CO LTD

Assignee(s): (std): SHENZHEN SDG INFORMATION CO LTD

Assignee(s): SHENZHEN SDG INFORMATION CO

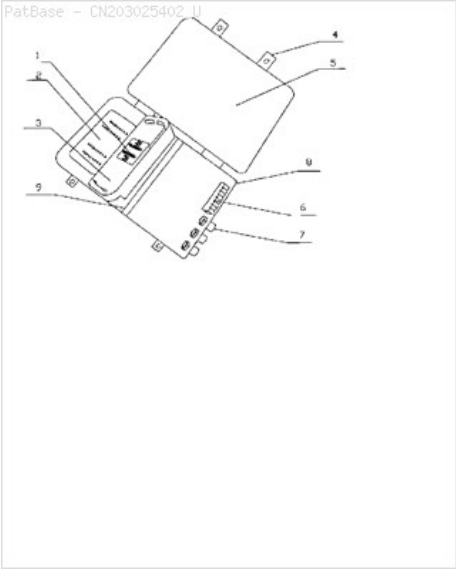
Inventor(s): (std): DENG WEIFENG ; HE WENDONG ; LEI DA ; WANG MINGJU ; XU CHANGZHI

Title: TWO-PURPOSE JUNCTION BOX

Abstract: Source: CN203025402U The utility model relates to a two-purpose junction box. The junction box comprises a box body and a box body cover hinged on one side of the box body, wherein a welding tray is arranged in the box body; a turning tray is additionally hinged above the welding tray; the upper surface of the turning tray is a plane; a plurality of slots are arranged in the lower surface of the turning tray; a wire inlet and a wire outlet are formed in the same side of the box body; preferably, an adapter groove is arranged in one side of the turning tray; and an adapter is arranged in the adapter groove. Through the turning tray hinged above the welding tray, the junction box disclosed by the utility model can serve as an optical fiber junction box, and can directly serve as a splitter box.

Classifications:

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



Family:

Publication number	Publication date	Application number	Application date
CN203025402 U	20130626	CN201320069804U	20130131

Priority:
CN201320069804U 20130131

Probable Assignee: SUN YONGWEI

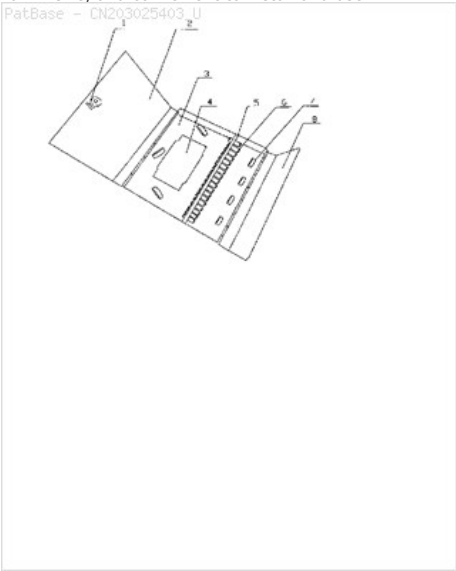
Assignee(s): (std): SUN YONGWEI

Inventor(s): (std): SUN YONGWEI

Title: OPTICAL FIBER JUNCTION BOX

Abstract: Source: CN203025403U The utility model relates to an optical fiber junction box. The optical fiber junction box comprises a box body, wherein a welding tray, adapters and an optical splitter box are arranged in the box body; the box body comprises a first box body and a second box body which are isolated through a separation belt; a plurality of adapter grooves which are sequentially distributed are arranged below the separation belt; the adapters are respectively arranged in the adapter grooves; a first box body cover is hinged on the outer side of the first box body; a second box body cover is hinged on the outer side of the second box body; the first box body cover can firmly press the second box body cover; a lock is arranged on the first box body; and a lock tongue of the lock is rotatably fastened into the separation belt. The optical fiber junction box disclosed by the utility model is compact in structure, small in size, and convenient to install and use.

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



Family:

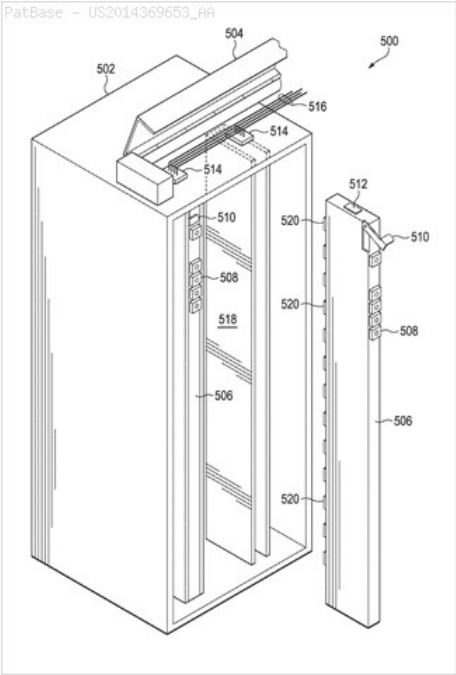
Publication number	Publication date	Application number	Application date
CN203025403 U	20130626	CN201320069826U	20130131

Priority:
CN201320069826U 20130131
Probable Assignee: SUN YONGWEI
Assignee(s): (std): SUN YONGWEI
Inventor(s): (std): SUN YONGWEI

Title: OPTICAL PLENUM

Abstract: Source: US2014369653A In the present idsclosure inter-rack optical plenum may be used to route optical fibers between multiple racks of a system. An intra-rack optical plenum may be coupled to one of the racks and the inter-rack optical plenum. The intra-rack optical plenum may route an optical fiber between a first connector configured to mate with a first device and a second connector configured to mate with the inter-rack optical plenum.

Classifications:
International (IPC 8-9): G02B6/36 G02B6/46 (Advanced/Invention)
CPC: G02B6/46 G02B6/36 G02B6/4452 G02B6/4459 G06F1/183
US: 385/92



Family:

Publication number	Publication date	Application number	Application date
CN104081242 A	20141001	CN201280068718	20120411
US2014369653 AA	20141218	US20120368933	20120411
WO13154548 A1	20131017	WO2012US33011	20120411

Priority:

WO2012US33011 20120411 US20120368933 20120411

Probable Assignee: HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP

Assignee(s): (std): HEWLETT PACKARD DEVELOPMENT CO ; LEIGH KEVIN B ; MEGASON GEORGE D ; SHERROD DAVID W

Assignee(s): HEWLETT PACKARD DEVELOPMENT CO LP ; HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP

Inventor(s): (std): LEIGH KEVIN B ; MEGASON GEORGE D ; SHERROD DAVID W

Agent(s): MCDOWELL ROBERT ET AL

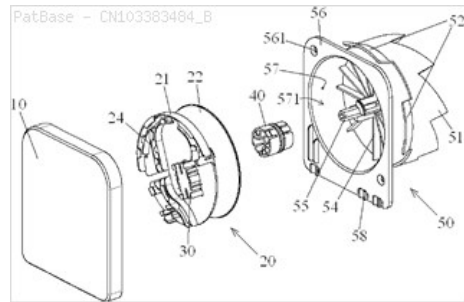
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT 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: **OPTICAL FIBER JUNCTION BOX**

Abstract: Source: NZ610120A 610120 An optical fibre **junction box** for installation into a wall is disclosed. The **junction box** comprises a housing (50) and a cutter (51) provided on a rear side of the housing. The cutter comprises a plurality of cutting teeth formed around a first circumferential edge of a first side of a disc plate. A plurality of spring locking tabs (52) are formed around a second circumferential edge of a second side, which is opposite to the first side, of the disc plate. The disc plate also has a driller centrally fixed on the first side which acts as a centre point about which the cutter rotates. When rotated, the cutter cuts the wall and enters into the wall to embed the housing in the wall. The housing is retained in the wall by the spring locking tabs. A main body portion of the housing (57), which defines a chamber (571) is configured to receive an optical fibre **tray** (20), on which an optical fibre can be wound.

Classifications:

International (IPC 8-9): B26F1/00 G02B6/00 G02B6/44 H02G3/08
H02G3/10 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
AU2013203613 AA	20131121	AU20130203613	20130411
AU2013203613 BB	20151224	AU20130203613	20130411
CN103383484 A	20131106	CN201210135297	20120503
CN103383484 B	20150415	CN201210135297	20120503
NZ610120 A	20141128	NZ20130610120	20130502

Priority:

CN201210135297 20120503

Probable Assignee: TYCO ELECTRONICS SHANGHAI CO

Assignee(s): (std): ADC COMM AUSTRALIA PTY LTD ; TYCO ELECTRONICS SHANGHAI CO

Assignee(s): TYCO ELECTRONICS SHANGHAI CO LTD ; ADC COMMUNICATIONS AUSTRALIA PTY LTD

Inventor(s): (std): WANG LIMING ; XIAO TAIYANG ; XIAO TELLER ; YANG YANHONG ; HUBBARD PAUL ; PAUL HUBBARD

Inventor(s): PAULHUBBARD

Agent(s): GRIFFITH HACK

Title: Cable junction box (Machine translation)

Abstract: Source: CN302687702S 1. The name of the product design: the cable junction box. 2. The product design Uses: This product design for an optical cable junction box at one end of the cartridge body having cable entry, the other end has a cable outlet in the cartridge body with a splice tray is used for input and output of an optical fiber cable connection. 3. The design features the product's design: that shape. 4. The best indicator of the design elements of the design pictures or photographs: front view.

Classifications:
Locarno class: 14/03

Family:

Publication number	Publication date	Application number	Application date
CN302687702 S	20131218	CN201330387195F	20130813

Priority:
CN201330387195F 20130813
Probable Assignee: ZHEJIANG HONGSHENG COMMUNICATION TECHNOLOGY CO LTD
Assignee(s): ZHEJIANG HONGSHENG COMMUNICATION TECHNOLOGY CO LTD

Title: CAJA COMPACTA MODULAR PARA EMPALME, DERIVACION Y CONECTORIZACION DE FIBRA OPTICA EN MARCOS DE DISTRIBUCION COMPACT MODULAR **JUNCTION BOX**, referral and CONNECTORS fiber optic distribution frames (Machine translation)

Abstract: Source: CO7490011U Resumen La presente invencion pertenece al area de las telecomunicaciones y mas particularmente, se relaciona con sistemas para empalmes y proteccion para empalmes de cables de transmision de datos. La caja compacta modular esta compuesta por un envoltente conformado por una caja (19 una tapa removible (4) y una ventana (59, un sistema organizador compuesto por una bandeja deslizante (3) con unos rieles (12), una bandeja para fibra optica (9), unas regletas para soporte de adaptadores (11), unas chapas anti traccion (14) y una cadena de transporte y proteccion (2); tambien unos sistemas de fijacion como los pines de cierre de tapa (6), los soportes de ventana (7), enrutadores (8), uno de los pines para ensamble de la regleta (10)y los angulos de fijacion (13). Summary This invention is in the area of telecommunications and more particularly relates to systems for joints and protection for cable splices data transmission. The modular compact housing is composed of a casing formed by a casing (19 a removable lid (4) and a window (59, an organizer system comprising a sliding **tray** (3) with a rail (12), a **tray** for **optical fiber** (9), a support strips for adapters (11), a traction anti plates (14) and a chain of transport and protection (2); also fastening systems and pins closing lid (6), supports window (7), routers (8), one of the pin assembly strip (10) and the mounting brackets (13).

Classifications:
International (IPC 8-9): F28F9/04 H01R12/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO7490011 U1	20160115	CO20150303151U	20151221

Priority:
CO20150303151U 20151221

Probable Assignee: SILVER LIMITADA

Assignee(s): (std): SILVER LIMITADA

Inventor(s): (std): CASTILLO GOMEZ JOSE MAURICIO ; GARZON ROMERO DANIELA ; PLATA MURCIA ORLANDO