

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 December 2004 (16.12.2004)

PCT

(10) International Publication Number
WO 2004/110122 A3

(51) International Patent Classification⁷: **H05K 7/00**

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(21) International Application Number:
PCT/US2004/017006

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(22) International Filing Date: 28 May 2004 (28.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/449,868 30 May 2003 (30.05.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

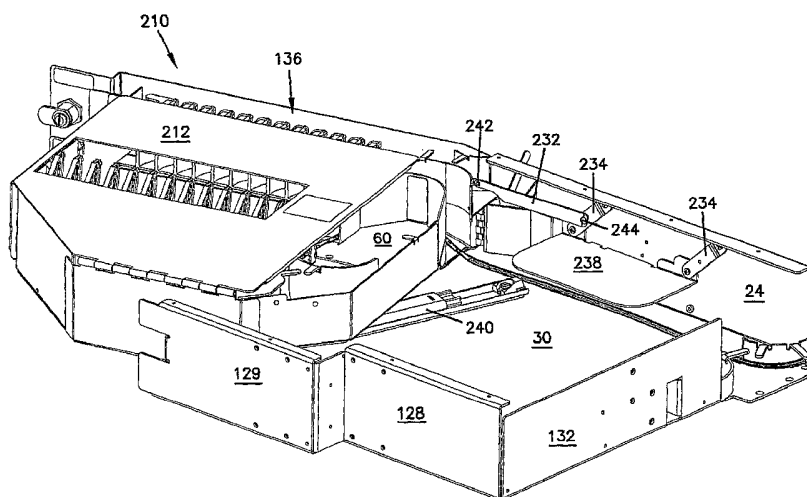
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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: OPTICAL FIBER DISTRIBUTION FRAME WITH ROTATING PANEL



(57) Abstract: The invention relates to a telecommunications termination panel (210) with a housing including a front opening and a rear opening. Pivotably mounted within the housing is a tray (136) within the front opening, pivoting about a vertical axis located adjacent a first side of the housing. A cable path is defined along a bottom of the housing. A movable plate (238) is positioned adjacent the first side and is movable between a first position defining an upper limit of the cable path when the tray is closed and a second position allowing access to the cable path when the tray is open. The movement of the plate between the first and second positions is actuated via the actuator (232) by the movement of the tray. Pivotably mounted within the housing is a tray within the front opening, pivoting about a vertical axis located adjacent a first side of the housing. The tray is pivotable between an open and a closed position. The tray includes a cover (212) which can be moved between an operational and an access position when the tray is in the open position. With the cover in the operational position, the tray is prevented from moving from the open to the closed position.



WO 2004/110122 A3



Published:

— with international search report

(88) Date of publication of the international search report:

21 July 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/017006

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G02B6/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/125800 A1 (KNUDSEN CLINTON M ET AL) 12 September 2002 (2002-09-12)	22
A	abstract; figures 6,7	1-11
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A	abstract; figures 3,10,15	1-11
A	US 4 708 430 A (DONALDSON MICHAEL J ET AL) 24 November 1987 (1987-11-24)	1-11
	abstract; figures 1,3	
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

11 January 2005

Date of mailing of the international search report

25. 02. 2005

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/017006

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 946 440 A (PUETZ CURTIS LEE) 31 August 1999 (1999-08-31) abstract; figure 10 -----	1-11
A	DE 44 13 136 C (LOH KG RITTAL WERK) 4 May 1995 (1995-05-04) abstract; figure 1 -----	1-11
A	US 6 301 424 B1 (HWANG LIANG) 9 October 2001 (2001-10-09) abstract; figure 1 -----	1-11
X	US 6 418 264 B1 (GRAVESTON MARK GEORGE ET AL) 9 July 2002 (2002-07-09) abstract; figures 1,14 -----	12-21
X	US 5 740 299 A (GRAVESTON MARK GEORGE ET AL) 14 April 1998 (1998-04-14) abstract; figure 8 -----	12-21
A	EP 0 293 183 A (MINNESOTA MINING & MFG) 30 November 1988 (1988-11-30) abstract; figures 2,4,8 -----	12-21
A	US 2002/159745 A1 (HOWELL BRET L ET AL) 31 October 2002 (2002-10-31) abstract; figure 1 paragraph '0037! -----	12-21
A	EP 1 203 974 A (TYCO ELECTRONICS CORP) 8 May 2002 (2002-05-08) abstract; figure 7 -----	12-21

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/017006

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11, 22

A telecom termination panel comprising a housing including a top, a bottom, a first side and a second opposing side defining a front opening; a tray pivotably mounted within the front opening of the housing, pivoting about a vertical axis located adjacent the first side and including a cable entry adjacent the axis of pivot and a plurality of connection locations, the tray movable between an open position and a closed position; characterized by also having and a rear opening, the rear opening adjacent the first side; a cable path defined along the bottom of the housing, along the first side between the cable entry of the tray and the rear opening; a moveable plate above the cable path, the plate movable between a first lowered position when the tray is closed and a second raised position when the tray is open, and the movement of the plate between the first and second positions is actuated by the movement of the tray between the closed and open positions; and wherein the moveable plate in the first position defines an upper limit on the cable path beneath the tray and the moveable plate in the second position is raised above the cable path to permit placement of cables within the cable path

2. claims: 12-21

A telecom termination panel comprising a housing including a top, a bottom, a first side and a second opposing side defining a front opening; a tray pivotably mounted within the front opening of the housing, pivoting about a vertical axis located adjacent the first side and including a cable entry adjacent the axis of pivot and a plurality of connection locations, the tray movable between an open position and a closed position; characterized by the tray including perimeter, a wall extending upward adjacent the perimeter to enclose the plurality of connector locations, a first portion of the wall closing the front opening when the tray is in the closed position, and a cover hingedly mounted to a second portion of the wall opposite the first portion; the cover movable between an access position and an operational position when the tray is in the open position, only the operational position of the cover allowing the tray to move from the open position to the closed position, the access position allowing access to the connection locations and to cables extending to or away from the connection locations, and the cover in the access position preventing the tray from moving from the open to the closed position

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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