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(71) Applicant (for all designated States except US):
HUBBELL INCORPORATED [US/US]; 584 Derby
Milford Road, Orange, CT 06477-4024 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ABUGHAZALEH,**
Shadi [JO/US]; 1285 Route 163, Oakdale, CT 06370

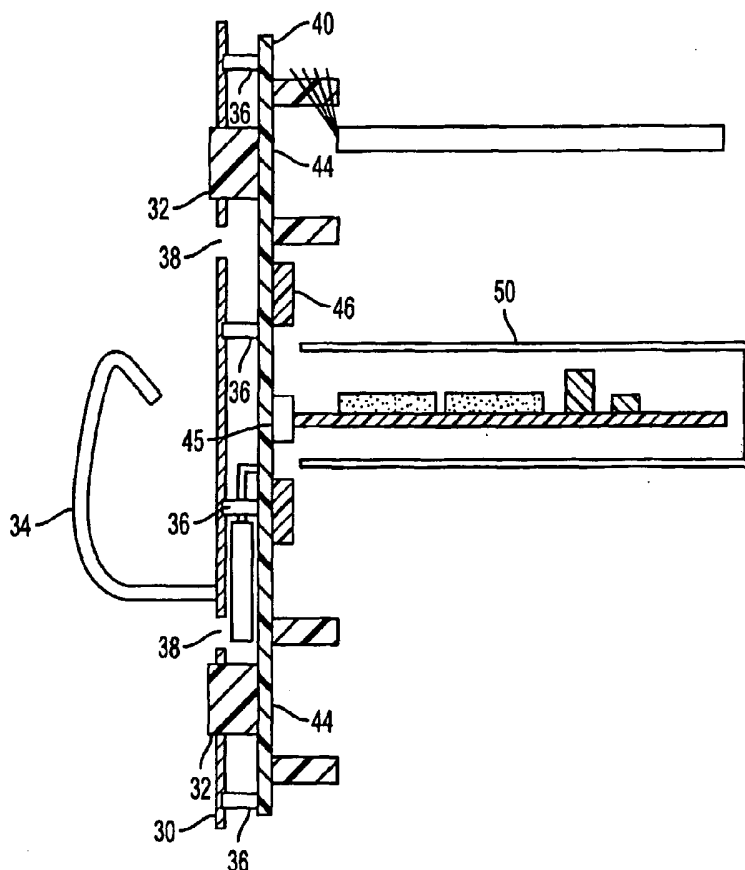
(US). **BAXTER, Robert** [US/US]; 254 Randall Ave,
Warwick, RI 02889 (US). **MAHMOOD, Rehan** [PK/US];
72 Bascom Road, Lebanon, CT 06249 (US). **MILLER,**
Alan [US/US]; 15 Middle Beach Road, Madison, CT
06443 (US). **O'CONNOR, Michael** [US/US]; 22 Ajellos
Farm Road, Seymour, CT 06483 (US).

(74) Agents: **BICKS, Mark** et al.; 1300 19th Street, N.W.,
Suite 600, Washington, DC 20036 (US).

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MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
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[Continued on next page]

(54) Title: MIDSPAN PATCH PANEL WITH COMPENSATION CIRCUIT FOR DATA TERMINAL EQUIPMENT, POWER IN-
SERTION AND DATA COLLECTION



(57) Abstract: A compensating advanced
feature patch panel (12) that can include
removable modular (50) or fixed electronic
components (46) located directly on the patch
panel which are separately or in combination
capable of providing advanced features such
as device detection and power insertion.
The patch panel provides communications
between an insulation displacement connector
(IDC) at a PD/User end (84), and any standard
interface type using unshielded twisted pair
cables, such as an RJ45 connector at a switch
end (86) at performance levels of at least
category 3, 5, 5e, 6 and/or higher (e.g. 6e or 7)
and equivalent performance levels as required
by compensating for the active electronics
used in providing advanced features through
the use of inductive, capacitive and reactive
circuit elements to compensate for advanced
feature electronics.



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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H05K 7/06 US CL : 361/780,782,788 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) U.S. : 361/780,782,788,790,793,794,761,762,763,764 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,089,923 A (PHOMMACHANH) 18 July 2000 (18.07.2000), see entire document.	1-25
A	US 5,931,703 A (AEKINS) 03 August 1999 (03.08.1999), see entire document.	1-25
A	US 6,057,743 A (AEKINS) 02 May 2000 (02.05.2000), see entire document.	1-25
A	US 5,944,535 A (BULLIVANT et al.) 31 August 1999 (31.08.1999), see entire document.	1-25
A	US 5,533,618 B1 (AEKINS) 18 March 2003 (18.03.2003), see entire document.	1-25
A	US 6,483,715 B1 (CHEN) 19 November 2002 (19.11.2002), see entire document.	1-25
A	US 6,411,506 B1 (HIPPE et al.) 25 June 2002 (25.06.2002), see entire document.	1-25
A	US 5,930,119 A (BERDING) 27 July 1999 (27.07.1999), see entire document.	1-25
A	US 6,512,396 B1 (BERDING) 28 January 2003 (28.01.2003), see entire document.	1-25
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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PCT/US05/06595**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 4,697,858 A (BALAKRISHNAN) 06 October 1987 (06.10.1987), see entire document.	1-25
A	US 5,748,451 A (THOMPSON et al.) 05 May 1998 (05.05.1998), see entire document.	1-25

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Continuation of B. FIELDS SEARCHED Item 3:

USPGPUB search terms: (back\$1plane\$1 back\$1panel\$1 back\$1board\$1 patch\$1board\$1 patch\$1panel\$1 mid\$1plane\$1).clm.,
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