

Title (en)

OVERVOLTAGE PROTECTION MAGAZINE FOR A DEVICE OF TELECOMMUNICATIONS TECHNOLOGY

Title (de)

ÜBERSPANNUNGSSCHUTZMAGAZIN FÜR EINE EINRICHTUNG DER TELEKOMMUNIKATIONSTECHNIK

Title (fr)

MAGASIN DE PROTECTION CONTRE LES SURTENSIONS POUR UN SYSTEME DE TELECOMMUNICATION

Publication

**EP 1614200 B1 20070912 (DE)**

Application

**EP 04723541 A 20040326**

Priority

- EP 2004003231 W 20040326
- DE 10317621 A 20030416

Abstract (en)

[origin: WO2004093275A1] The invention relates to an overvoltage protection magazine (1) for a device of telecommunications technology, which comprises a housing (2), a printed circuit board (3), a plurality of overvoltage arresters (4) and at least one connection to ground (6). The overvoltage arresters (4) are disposed on the printed circuit board (3) and are led to contact pads (8) disposed on the printed circuit board (3) via conductor tracks. In the plugged-in state of the device, said contact pads electrically contact the contacts of the telecommunications device, the overvoltage arresters (4) being arranged in series.

IPC 8 full level

**H01T 4/06** (2006.01)

CPC (source: EP KR US)

**H01T 4/06** (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004093275 A1 20041028**; AR 044218 A1 20050907; AT E373328 T1 20070915; AU 2004230460 A1 20041028;  
AU 2004230460 B2 20090625; BR PI0409354 A 20060425; CA 2518455 A1 20041028; CA 2518455 C 20111220; CL 2004000819 A1 20050527;  
CN 100539337 C 20090909; CN 1774846 A 20060517; CY 1107077 T1 20121024; DE 10317621 A1 20041125; DE 10317621 B4 20160707;  
DE 20321811 U1 20100624; DE 502004004949 D1 200711025; DK 1614200 T3 20071112; EP 1614200 A1 20060111;  
EP 1614200 B1 20070912; ES 2291865 T3 20080301; HK 1089877 A1 20061208; KR 100957485 B1 20100514; KR 20050111634 A 20051125;  
MX PA05011006 A 20060308; MY 140072 A 20091130; NZ 542329 A 20070629; PL 1614200 T3 20080229; PT 1614200 E 20071024;  
TW 200425595 A 20041116; TW I234319 B 20050611; US 2007064373 A1 20070322; US 7583488 B2 20090901

DOCDB simple family (application)

**EP 2004003231 W 20040326**; AR P040101249 A 20040414; AT 04723541 T 20040326; AU 2004230460 A 20040326;  
BR PI0409354 A 20040326; CA 2518455 A 20040326; CL 2004000819 A 20040415; CN 200480010050 A 20040326;  
CY 071101564 T 20071207; DE 10317621 A 20030416; DE 20321811 U 20030416; DE 502004004949 T 20040326; DK 04723541 T 20040326;  
EP 04723541 A 20040326; ES 04723541 T 20040326; HK 06110147 A 20060913; KR 20057019026 A 20040326; MX PA05011006 A 20040326;  
MY PI20041254 A 20040405; NZ 54232904 A 20040326; PL 04723541 T 20040326; PT 04723541 T 20040326; TW 93109774 A 20040408;  
US 55331404 A 20040326