

Title (en)
ELECTRICAL HEATING CABLE CONNECTION DEVICE

Publication
EP 0187636 B1 19890503 (DE)

Application
EP 86100003 A 19860102

Priority
DE 3500232 A 19850105

Abstract (en)
[origin: EP0187636A1] 1. Electrical heating cable connecting device, in particular self-regulating heating cable (32, 132), at least one end part (33, 133) of the cable being introduced in an explosion-proof manner into a housing (1, 101) and at least one electrical lead being connected to one contact of an insulating member (19, 119), characterized in that the insulating member (19, 119) is releasably mounted closely surrounded in an unfilled inner chamber (20, 120) of an insulating casing (18, 118) resistant to the heating temperature, that the end part (33, 133) of the heating cable (32, 132) is clamped in a flame-proof manner in a passage of an elastomeric gasket (15, 115) resistant to the heating temperature, that the heating cable (32, 132) with the associated elastomeric gasket (15, 115) closes off the inner chamber (20, 120) of the insulating casing (18, 118) and is detachably fastened with a fire-proof gap (34, 134) on the periphery of the elastomeric gasket in an opening (35, 135) of the housing (1, 101) and that the housing (1, 101) is constructed as a pressure-resistant enclosure withstanding the pressure of an explosion of an explosive mixture in the inner chamber (20, 120) of the insulating casing (18, 118) at the heating temperature of the heating cable (32, 132) and preventing a transmission of the explosion to the atmosphere surrounding the housing (1, 101).

IPC 1-7
H05B 3/06; **H05B 3/56**

IPC 8 full level
H05B 3/06 (2006.01); **H05B 3/56** (2006.01)

CPC (source: EP)
H05B 3/06 (2013.01); **H05B 3/56** (2013.01)

Citation (opposition)
Opponent : **Raychem Limited**
• "Components kits thermostat and accessories for AUTOTRACE self regulating heating tapes - Front cover, pages 1 and 3, and back cover (4 pages", RAYCHEM CHEMELEX DIVISION BROCHURE
• HAWKE BROCHURE JUNCTION BOXES - FRONT COVER, PAGES 6 AND 7, AND BACK COVER (4 PAGES) .
• HAWKE BROCHURE CABLE GLANDS - FRONT COVER, PAGE 14, AND BACK COVER (3 PAGES)
• SIEMENS INSTALLATIONS : VERSCHRAUBUNGEN (1 PAGE)

Cited by
CN108593698A; EP1313351A1; US6126483A; EP0893857A3; DE19726418A1; US5998772A; EP0893844A3; CN110416936A; CN115021196A; US6423952B1; WO2014040772A1; WO9006604A1; US6520800B1; WO9927615A1

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EP 0187636 A1 19860716; **EP 0187636 B1 19890503**; **EP 0187636 B2 19931229**; AT E42885 T1 19890515; DE 3500232 C1 19860814; DE 3663222 D1 19890608

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