

Title (en)
ELECTRICAL FEEDTHROUGHS FOR ULTRAVACUUM APPLICATION

Title (de)
ELEKTRISCHE DURCHSPEISUNGEN FÜR UKLTRAVAKUUM-ANWENDUNG

Title (fr)
TRAVERSEES ELECTRIQUES MULTIPLES DESTINEES A DES APPLICATIONS DE VIDE POUSSE A DES TEMPERATURES DE FONCTIONNEMENT COMPRISES ENTRE 70 ET 530 oK

Publication
EP 1658657 A1 20060524 (EN)

Application
EP 03818409 A 20030827

Priority
IT 0300519 W 20030827

Abstract (en)
[origin: WO2005022694A1] A device that provides for the passage of an electrical current through a wall of separation of rooms operating under even very different thermal, atmospheric conditions. The invention uses metal leads fitted with interference into one or more adjacent coaxial discs of plastic materials with high electrical, mechanical, thermal, chemical resistance to provide the electrical feedthroughs. An embodiment of the invention (Fig. 1) consists of electrical feedthroughs formed of one or more cylindrical metal leads (6) that have a short length with larger diameter which interferes with the corresponding hole of the discs of plastic material (5, 5'), thus ensuring the vacuum tightness. The discs (5, 5') are located between and pressed by two adjacent, coaxial metal rings (2, 3) rigidly connected to each other by sealing. Metal ring (2) is sealed to the wall and provides for the separation of the rooms and the passage of the electrical current- Components (4, 1) can be threaded at their outer surfaces to allow electrical connectors to be used.

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H01R 4/68

IPC 8 full level
H01R 13/533 (2006.01)

CPC (source: EP)
H01R 13/533 (2013.01); **H01R 13/74** (2013.01); **H01R 13/521** (2013.01)

Citation (search report)
See references of WO 2005022694A1

Citation (examination)
• US 3897131 A 19750729 - STAUFFER LARRY RONALD
• EP 0580498 A1 19940126 - GEC ALSTHOM ELECTROMECC [FR]

Cited by
EP2458692A1

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