

Title (en)
LEADTHROUGH FOR ELECTRIC HIGH-VOLTAGE THROUGH A WALL SEPARATING AN ENVIRONMENT AREA FROM A PROCESS AREA

Title (de)
DURCHFÜHRUNG FÜR ELEKTRISCHE HOCHSPANNUNG DURCH EINE WAND, DIE EINEN UMGEBUNGSBEREICH VON EINEM PROZESSBEREICH TRENNT

Title (fr)
PASSAGE POUR HAUTE TENSION ELECTRIQUE REALISE A TRAVERS UNE PAROI SEPARANT UNE ZONE ENVIRONNEMENTALE D'UNE ZONE DE PROCESSUS

Publication
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Application
EP 03725015 A 20030412

Priority
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• EP 0303816 W 20030412

Abstract (en)
[origin: WO2004000465A1] A leadthrough for electric high-voltage through a wall separating an environment area from a process area having generally different atmospheric conditions, comprising a body made from a dielectric, high-voltage resistant and creepage-path resistant material and spatially two coaxially successive geometric base structures i.e. a cylinder and a truncated cone, whereby the smaller front face of the latter is disposed adjacent to the cylinder. The outer radius of the cylinder is greater than said smaller front face and the truncated cone, including the front face of the cylinder to which it is adjacent, is fully exposed in the process area. A central bore runs through the body for leading through the electric conductor. At least two bores extending parallel to the axis through the cylinder are evenly-distributed on a circle about the axis with a smaller radius than the cylinder radius. The respective front openings thereof remain open and are used to blow air or gas from the environment to the surface area of the truncated cone. The leadthrough is tightly incorporated into the wall via the surface area of the cylinder. The free front surface of the cylinder, which is indented, planar or indented outwards, is exposed in the process environment.

IPC 8 full level
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CPC (source: EP US)
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