

Title (en)
HIGH-VOLTAGE LEAD-THROUGH FOR OIL-COOLED ELECTRIC DEVICES

Publication
EP 0383988 B1 19930811 (DE)

Application
EP 89104925 A 19890320

Priority
DE 3905173 A 19890220

Abstract (en)
[origin: EP0383988A1] In electrical devices connected to high-voltage, especially machine and mains transformers, components (3, 5) for the electrical and mechanical connection of the end of a feedthrough conductor bolt (3) to a connecting conductor (12) carrying high-voltage are often arranged in a chalice-shaped screen (4). According to the invention, in order to damp high-frequency switching oscillations a low-inductance fixed resistor (9), forming the end of the connecting conductor (12), is spatially and electrically arranged between the chalice-shaped screen (4) and a chalice-shaped screening pot (10) similar to said screen, an iron-free choke winding (8) carrying the load current being provided electrically in parallel with, and spatially coaxially with respect to, the fixed resistor (9), which choke winding (8) grips the screening pot (10) with its one end and the screen (4) with its other end. The combination of a high-voltage feedthrough (2) with a damping element for oscillations in the MHz range is especially expedient in cases in which a 400 kV transformer is directly coupled to an SF6 switching device. <IMAGE>

IPC 1-7
H01F 27/04

IPC 8 full level
H01F 27/04 (2006.01); **H01F 27/32** (2006.01); **H01F 27/36** (2006.01)

CPC (source: EP)
H01F 27/04 (2013.01)

Cited by
EP2187407A4; CN102456469A; DE19824606A1; DE19824606C2; EP3093938A1; EP2924698A1; US11823815B2; EP2991095A1; US10366861B2

Designated contracting state (EPC)
AT BE CH DE FR LI NL SE

DOCDB simple family (publication)
EP 0383988 A1 19900829; EP 0383988 B1 19930811; AT E93081 T1 19930815; DE 58905274 D1 19930916; JP 2805690 B2 19980930; JP H02262312 A 19901025

DOCDB simple family (application)
EP 89104925 A 19890320; AT 89104925 T 19890320; DE 58905274 T 19890320; JP 3953290 A 19900219