

Title (en)
THERMAL PROTECTIVE DEVICE FOR TRANSFORMERS AND INDUCTANCES

Publication
EP 0111470 A3 19850109 (DE)

Application
EP 83890212 A 19831115

Priority
AT 414282 A 19821115

Abstract (en)
[origin: US4549817A] An electrical component such as a transformer winding or choke coil is placed in a forced cooling circuit containing circulation pumps and coolers for a cooling medium and is subjected to forced circulation cooling. The thermal monitoring apparatus comprises a container housing therein a thermal sensor surrounded by a thermosensor winding. The container is connected by respective branch lines to the forced cooling circuit either upstream or downstream with respect to the circulation pumps. Cooling medium flows through the transformer or choke coil in the forced cooling circuit and through the branch lines leading to the container. Each branch line is provided with an equivalent hydraulic resistance of the transformer winding and the cooler. The thermosensor winding is connected to a current transformer which is supplied with a current which is proportional to the current flowing through the transformer or choke coil.

IPC 1-7
H01F 27/40; H02H 5/06

IPC 8 full level
G01R 31/06 (2006.01); **G01R 31/28** (2006.01); **H01F 27/00** (2006.01); **H01F 27/12** (2006.01); **H01F 27/40** (2006.01)

CPC (source: EP US)
H01F 27/402 (2013.01 - EP US); **H01F 2027/404** (2013.01 - EP US); **H01F 2027/406** (2013.01 - EP US)

Citation (search report)

- [A] DE 3006854 A1 19810903 - SANDEN RAINER ING GRAD
- [A] DE 1175358 B 19640806 - BBC BROWN BOVERI & CIE
- [A] FR 931647 A 19480227 - ALSTHOM CGEE
- [A] GB 1153762 A 19690529 - PARSONS & CO LTD C A
- [A] US 1597771 A 19260831 - DANN WALTER M
- [A] DE 935852 C 19551201 - SIEMENS AG

Cited by
EP0335351A1

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

DOCDB simple family (publication)
EP 0111470 A2 19840620; **EP 0111470 A3 19850109**; **EP 0111470 B1 19870304**; AT 378623 B 19850910; AT A414282 A 19850115; DE 3370093 D1 19870409; JP S59112607 A 19840629; US 4549817 A 19851029

DOCDB simple family (application)
EP 83890212 A 19831115; AT 414282 A 19821115; DE 3370093 T 19831115; JP 21343583 A 19831115; US 55160183 A 19831114