

Title (en)

Self-protected trip device for immersed electrical transformer

Title (de)

Selbstschutz-Auslöseeinrichtung für eingetauchten elektrischen Transformator

Title (fr)

Déclencheur d'auto-protection pour transformateur électrique immergé

Publication

EP 0883222 A1 19981209 (FR)

Application

EP 98109270 A 19980522

Priority

FR 9706938 A 19970603

Abstract (en)

The arrangement comprises a light lever (6) made from, e.g. polypropylene. The lever is asymmetrically arranged about a pivot (7). When the lever is horizontal, its shorter arm (8) just fails to contact, with its finger (11), an actuator (2) of a trip-switch (5) that controls a primary side circuit-breaker. An open-topped (20) cup (10), terminates a longer arm (9) of the lever and is filled with oil. Initially, at the end of the tank filling process the arm swings up vertically as the oil rises in the tank; its movement being halted by a tank lid stop (12). If the tank leaks (17,13), the finger rises against the actuator to apply a force (Fd) mainly due to the weight of oil in the cup, which, at a preset value, overcomes the actuator resistance and trips the circuit-breaker, optionally, after a time delay.

IPC 1-7

H02H 5/08

IPC 8 full level

H01F 27/12 (2006.01); **H02H 5/08** (2006.01); **H02H 7/04** (2006.01); **H01H 35/18** (2006.01)

CPC (source: EP)

H01H 33/555 (2013.01); **H01F 27/10** (2013.01); **H01F 2027/404** (2013.01); **H01H 35/18** (2013.01)

Citation (search report)

- [Y] GB 710004 A 19540602 - ENGLISH ELECTRIC CO LTD
- [Y] FR 919853 A 19470320

Cited by

US7614299B2; WO2005059483A1

Designated contracting state (EPC)

BE DE ES FI GB GR IE IT SE

DOCDB simple family (publication)

EP 0883222 A1 19981209; EP 0883222 B1 20050202; CN 1126133 C 20031029; CN 1201246 A 19981209; DE 69828842 D1 20050310; DE 69828842 T2 20060504; ES 2236846 T3 20050716; FR 2764130 A1 19981204; FR 2764130 B1 19990709; RU 2213406 C2 20030927

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