Title (en)

DEVICE, ESPECIALLY FOR PROTECTING AGAINST OIL PENETRATION IN A GAS-FILLED MEASURING CHAMBER WHICH IS ARRANGED ON A TRANSFORMER CHAMBER FILLED WITH TRANSFORMER OIL, AND HEATING DEVICE

Title (de)

DETEKTIONSVORRICHTUNG FÜR EINEN ÖLEINBRUCH IN DIE MESSKAMMER EINES MITTELS MEMBRAN MIT EINER TRANSFORMATORKAMMER VERBUNDENEN GASSENSORS, SOWIE HEIZEINRICHTUNG FÜR TRAFOÖL

Title (fr)

DISPOSITIF POUR DETECTION DE PENETRATION D'HUILE DANS LA CHAMBRE DE MESURE D'UN CAPTEUR DE GAZ RELIE A UNE CHAMBRE D'UN TRANSFORMATEUR A L'AIDE D'UNE MEMBRANE, ET DISPOSITIF DE CHAUFFAGE POUR L'HUILE DE TRANSFORMATEUR

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Abstract (en)

[origin: WO03048719A2] Oil-cooled transformers are often monitored by means of a measuring chamber (1) for the presence of hydrogen, hydrogen indicating cracking products dissolved in the transformer oil. The hydrogen can diffuse from the transformer chamber (2) to the measuring chamber (1) by means of a gas-permeable membrane. In the event of leakage, however, the transformer oil (11) can also penetrate the measuring chamber, which can lead to, inter alia, measuring errors. According to the invention, the gas sensor (10) of the measuring chamber (1) is arranged in such a way that, in the event of oil penetration, it is at least partially submerged in the oil, and can thus detect said oil penetration. In another embodiment of the invention, the measuring accuracy is improved by means of a heating device (7) located in the region of the membrane (3). A closing body (82) can also be provided for preventing the penetration of the transformer oil.

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