

Title (en)

DEVICE AND METHOD FOR REDUCING A MAGNETIC UNIDIRECTIONAL FLUX FRACTION IN THE CORE OF A TRANSFORMER

Title (de)

VORRICHTUNG UND VERFAHREN ZUM VERRINGERN EINES MAGNETISCHEN GLEICHFLUSS-ANTEILS IM KERN EINES TRANSFORMATORS

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR RÉDUIRE UNE COMPOSANTE DE FLUX MAGNÉTIQUE CONTINU DANS LE NOYAU D'UN TRANSFORMATEUR

Publication

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Application

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Priority

EP 2010064397 W 20100929

Abstract (en)

[origin: WO2012041368A1] The invention relates to a device for reducing a magnetic unidirectional flux fraction in the core of a transformer, comprising: - a measurement device (7) that provides a sensor signal (6) corresponding to the magnetic unidirectional flux fraction, - a compensation winding (K) that is magnetically coupled to the core (4) of the transformer, - a switching unit (T) arranged electrically in a current path (3) in series with the compensation winding (K) in order to feed a current into the compensation winding (K), wherein the action of said current is directed opposite to the unidirectional flux fraction. The arrangement is characterized in that the switching unit (T) can be controlled by means of a regulating variable (9) provided by a control device (2), wherein the switching unit (T) can be switched into a conductive state during a predefined time interval (16) and in accordance with the regulating variable (9), the switch-on time (14) being mains-synchronous. A device for limiting the current in the current path (3) is provided and the sensor signal (6) is fed to the control device (2).

IPC 8 full level

H01F 27/38 (2006.01)

CPC (source: EP KR US)

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Citation (search report)

See references of WO 2012041368A1

Cited by

EP3196902A1; EP3179617A1; US10062502B2; US9941046B2

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