

Title (en)

A PLANAR TRANSFORMER AND A METHOD FOR REDUCING COMMON-MODE NOISE IN A PLANAR TRANSFORMER

Title (de)

PLANARER TRANSFORMATOR UND VERFAHREN ZUR REDUZIERUNG DER GLEICHTAKTSTÖRUNG IN EINEM PLANAREN TRANSFORMATOR

Title (fr)

TRANSFORMATEUR PLANAIRE ET PROCÉDÉ DE RÉDUCTION DE BRUIT EN MODE COMMUN DANS UN TRANSFORMATEUR PLANAIRE

Publication

EP 3576114 A1 20191204 (EN)

Application

EP 18175355 A 20180531

Priority

EP 18175355 A 20180531

Abstract (en)

The present invention relates to a planar transformer that comprises a primary winding (201) formed on at least one primary layer (102), a secondary winding (202) formed on at least one secondary layer (104), and a compensation winding (203) formed on a compensation layer (103) that is arranged between one primary layer (102) and one secondary layer (104). The planar transformer further comprises a first conductive area (204) formed on the compensation layer (103) and connected to the compensation winding (203), and a second conductive area (205) formed on the secondary layer (104) adjacent to the compensation layer (103) and located in parallel with the first conductive area (204). The present invention also relates to a method for reducing common-mode noise in a planar transformer.

IPC 8 full level

H01F 27/28 (2006.01); **H01F 27/33** (2006.01); **H01F 27/38** (2006.01); **H01F 27/40** (2006.01)

CPC (source: EP)

H01F 27/33 (2013.01); **H01F 27/2804** (2013.01); **H01F 27/38** (2013.01); **H01F 27/40** (2013.01); **H01F 2027/2809** (2013.01); **H01F 2027/2819** (2013.01)

Citation (search report)

- [XA] CN 107993814 A 20180504 - SALCOMP TECH SHENZHEN CO LTD
- [A] JP 2014053765 A 20140320 - PANASONIC CORP
- [A] JP 2006156680 A 20060615 - TDK CORP

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3576114 A1 20191204

DOCDB simple family (application)

EP 18175355 A 20180531