

Title (en)

High leakage inductor for a switched power converter

Title (de)

Drosselspule mit hohem Streufeld für geschalteten Stromrichter

Title (fr)

Réactance à champ de dispersion fort pour convertisseur de puissance à commutation

Publication

**EP 1014397 A1 20000628 (EN)**

Application

**EP 99402948 A 19991126**

Priority

ES 9802601 A 19981215

Abstract (en)

Magnetic integration of a planar inductor (20) for a switched power converter including filtering means connected to a load to provide a zero-ripple current. The planar inductor (20) comprises a magnetic core having an E type standardised core section, on the external legs of which are wound, respectively, a first coil (21) and a second coil (22), being magnetically coupled to obtain a leakage inductance (21-2), such that the common magnetic flux observed respectively by both coils (21) and (22) is conducted through the ferromagnetic circuit formed by the external legs of the core, and the magnetic flux associated with the leakage inductance (21-2) is conducted through one external leg and the central leg. <IMAGE>

IPC 1-7

**H01F 38/08**

IPC 8 full level

**H01F 27/24** (2006.01); **H01F 30/00** (2006.01); **H01F 38/08** (2006.01); **H02M 3/155** (2006.01); **H01F 3/14** (2006.01)

CPC (source: EP)

**H01F 38/08** (2013.01); **H01F 3/14** (2013.01)

Citation (search report)

- [Y] US 5783984 A 19980721 - KEUNEKE CARL EDWARD [US]
- [DY] US 5481238 A 19960102 - CARSTEN BRUCE W [CA], et al
- [A] EP 0444522 A1 19910904 - TDK CORP [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 091 (E - 109) 28 May 1982 (1982-05-28)

Cited by

CN104795224A; CN103515066A; US10389104B1; CN103489564A; CN103559977A; DE102015212022A1; AT16897U1; WO2020096342A1; US10998711B2; DE102020127173B3

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