

Title (en)
Planar inductor

Title (de)
Planare Induktivität

Title (fr)
Inductivité plane

Publication
EP 0716432 B1 20000223 (DE)

Application
EP 95203290 A 19951129

Priority
DE 4442994 A 19941202

Abstract (en)
[origin: EP0716432A1] The inductance has at least one essentially spiral shaped coil (2, 3) formed on a flat substrate (1). A layer of ferromagnetic material (13) is arranged on the substrate (1). The ferromagnetic material (13) is applied to the substrate (1) in a coating process, within an insulation window (12) fastened to the substrate (1). The window (12) is preferably fastened to the substrate (1) by adhesive. The ferromagnetic material may be a coating material mixed with a ferromagnetic admixture, eg. ferrite powder. The value of the induction of the coil(s) (2,3) and/or the coupling between the coils (2, 3) may be determined by the alignment and/or the contour of the insulation window (12) and/or by the layer depth and/or combination of the ferromagnetic material (13).

IPC 1-7
H01F 17/00; **H01F 41/04**

IPC 8 full level
H01F 17/00 (2006.01); **H01F 21/06** (2006.01); **H01F 41/04** (2006.01)

CPC (source: EP US)
H01F 17/0006 (2013.01 - EP US); **H01F 21/06** (2013.01 - EP US); **H01F 41/046** (2013.01 - EP US); **H01F 2017/0046** (2013.01 - EP US); **H01F 2017/0086** (2013.01 - EP US); **Y10T 29/4902** (2015.01 - EP US); **Y10T 29/49073** (2015.01 - EP US)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
DE 4442994 A1 19960605; DE 59507840 D1 20000330; EP 0716432 A1 19960612; EP 0716432 B1 20000223; JP 3548643 B2 20040728; JP H08222437 A 19960830; US 2004004525 A1 20040108; US 6600403 B1 20030729; US 6722017 B2 20040420

DOCDB simple family (application)
DE 4442994 A 19941202; DE 59507840 T 19951129; EP 95203290 A 19951129; JP 31441595 A 19951201; US 41089103 A 20030410; US 56577595 A 19951201