

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)

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**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)

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