

Title (en)

Inductive component and its manufacturing method

Title (de)

Induktives Bauelement und Verfahren zu seiner Herstellung

Title (fr)

Élément inductif et son procédé de fabrication

Publication

EP 0522475 B1 19960522 (DE)

Application

EP 92111382 A 19920704

Priority

DE 4122796 A 19910710

Abstract (en)

[origin: EP0522475A1] The invention relates to an inductive component having at least two windings, and to a method for its production. In order to achieve a compact construction and a cost-effective production method, a winding stack (3) is proposed having an arrangement of insulating material layers (9) and layers of structured metal sheet (11) stacked one above the other. The structured metal sheets (11) represent flat, spiral windings (7,8) which are embedded between insulating layers (9) and are baked under the influence of temperature and pressure to form a winding stack (3). Electrical connections between the windings connections (13) and to external connections (4) are produced with the aid of connecting pins (6) which are pressed into holes (5) which are incorporated at right angles to the plane of the layer, and are in consequence cold-welded to the respective metal sheets (11). <IMAGE>

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IPC 8 full level

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CPC (source: EP)

H01F 27/2847 (2013.01); **H01F 27/324** (2013.01); **H01F 41/125** (2013.01)

Citation (examination)

- EP 0516456 A2 19921202 - HWANG PI TA [TW]
- EP 0514136 A1 19921119 - IBM [US]
- EP 0514600 A1 19921125 - MAGNEX CORP [US]

Cited by

EP0771063A1; DE19542357A1; EP1041587A1; EP0608127A1; EP0671800A4; US6076251A; DE4422827A1; CN107578898A; EP1085535A1; US2022068544A1; US11901109B2; EP3340260A1; CN108231365A; EP3944271A1; WO2022200418A1; WO9841998A1; WO2004013876A1; US10861636B2; US12002614B2; WO2023079470A1

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